TA-VE700

SERVICE MANUAL

AEP Model
UK Model
E Model

SPECIFICATIONS

Amplifier section

POWER OUTPUT

Stereo mode (DIN 1 kHz, 4 ohms)
90 W + 90 W

Surround mode (DIN 1 kHz, 4 ohms)
Front:
90 W/ch
Centre:
90 W
(only in the PRO LOGIC mode)
Rear:
25 W

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, TAPE/MD, VIDEO 1, 2, 3, TV/LD: 10 Hz - 50 kHz $^{+0}_{-1}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	75 dB** (A, 2.5 mV)
CD	200 mV		
TAPE/ MD, TUNER, VIDEO 1, 2, 3, TV/ LD	150 mV	50 kilohms	82 dB** (A, 150 mV)

** '78 IHF

Outputs
TAPE/MD REC OUT, VIDEO 1, 2 AUDIO OUT: Voltage 150 mV, Impedance 10 kilohms
MIX AUDIO OUT
Voltage: 2 V
Impedance: 1 kilohms
PHONES: Accepts low and high impedance headphones

Muting – 20 dB

BASS BOOST +10 dB at 70 Hz

TONE ±8 dB at 100 Hz and 10 kHz

Video section

Inputs
VIDEO 1, 2, 3, TV/LD
VIDEO IN:
1 Vp-p 75 ohms
VIDEO 1, 3 S VIDEO:
Y: 1 Vp-p, unbalanced, sync negative
C: 0.286 Vp-p, load impedance 75 ohms

— Continued on page 2 —

INTEGRATED AV AMPLIFIER

SONY®

Outputs	VIDEO 1, 2, MONITOR VIDEO OUT: 1 Vp-p 75 ohms VIDEO 1, MONITOR S VIDEO: Y: 1 Vp-p, unbalanced, sync negative C: 0.286 Vp-p, load impedance 75 ohms

General

System	Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complimentary SEPP
Power requirements	220-230 V AC, 50/60 Hz
Power consumption	230 W
AC outlets	1 switched, total 100 W
Dimensions	430 x 157 x 355 mm (17 x 6 1/4 x 14 inches)
Mass (Approx.)	10.5 kg (23 lb 3 oz)
Supplied accessories	Remote commander (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

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SAFETY-RELATED COMPONENT WARNING!!

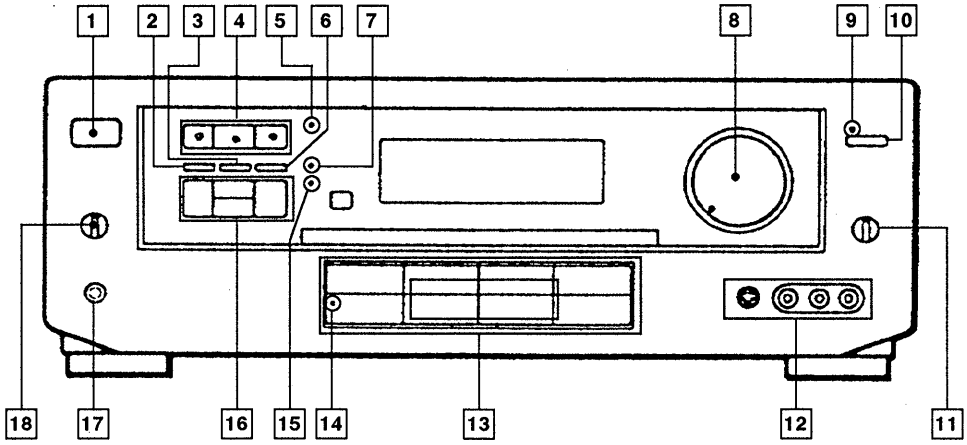
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

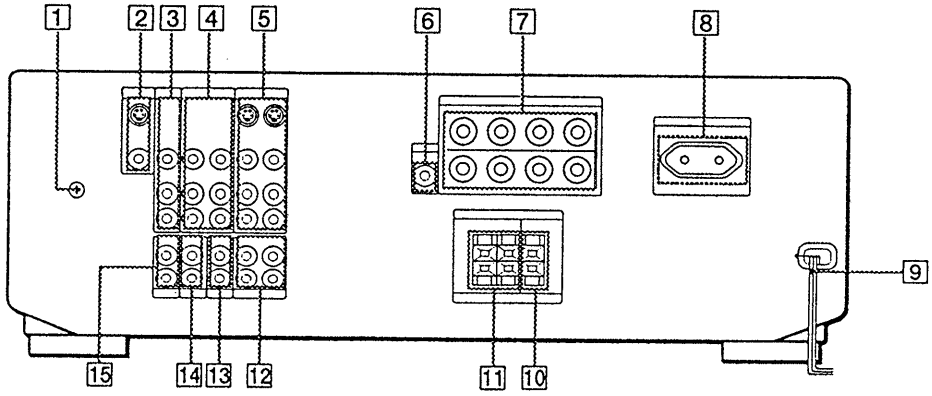
LOCATION AND FUNCTION OF CONTROLS

[Front Panel]



1 POWER switch
2 TONE ON/OFF button
3 CENTER MODE button
4 SOUND FIELD buttons
5 STANDBY indicator
6 DPC MODE buttons
7 SUR indicator
8 MASTER VOLUME control
9 BASS BOOST indicator
10 BASS BOOST button
11 BALANCE control
12 VIDEO 3 INPUT jack
13 FUNCTION buttons
14 TAPE/MD indicator
15 TONE indicator
16 Digital processing control buttons
17 PHONES jack
18 SPEAKERS switch

[Rear Panel]



1 ⏚ ground terminal
2 MONITOR
3 TV/LD
4 VIDEO 2
5 VIDEO 1
6 MIX AUDIO OUT
7 FRONT SPEAKERS (A/B)
8 SWITCHED AC OUTLET
9 mains lead
10 SURROUND SPEAKERS (CENTER)
11 SURROUND SPEAKERS (REAR)
12 TAPE/MD
13 CD
14 TUNER
15 PHONO

Remote Button Descriptions

For buttons not described on previous pages and buttons with names different from the buttons on the main unit.

Remote Button	Operates	Function
0-9	Tuner	Selects preset numbers.
	CD player/MD deck/LD player	Selects track numbers. 0 selects track 10.
	TV/VCR	Selects channel numbers.
CH/PRESET +/–	Tuner	Scans and selects preset stations.
	TV/VCR	Selects preset channels.
INDEX	Tuner	Selects station index names for index select tuning.
D. SKIP	CD player	Skips discs (CD player with multi-disc changer only.)
◄◄/►►	CD player	Searches tracks (forward or backward).
	Tape deck/MD deck/VCR/LD player	Fast forwards or rewinds.
⏮/⏭	CD player/ MD deck/LD player	Skips tracks.
II	CD player/ Tape deck/MD deck/LD player/VCR	Pauses play or record. (Also starts recording with components in record standby.)
►	CD player/ Tape deck/MD deck/LD player/VCR	Starts play.
■	CD player/ Tape deck/MD deck/LD player/VCR	Stops play.
◄	Tape deck	Starts play on the reverse side.
●	Tape deck	Sets tape decks to the record standby mode.
● + ►	Tape deck/ MD deck/ VCR	Starts recording when pressed with ► (or ◄ on tape deck).
RMS DIRECTION	Tape deck	Selects tape direction (for tape decks with the RMS* function.)
RMS CLEAR	Tape deck	Clears RMS* programme (for tape decks with the RMS function.)

Remote Button	Operates	Function
RMS DIRECTION ◄/►	Tape deck	Programmes tracks (tape deck with the RMS* function only).
ENTER	TV/VCR	Changes channels when used with 0-9.
TV/VIDEO	TV/VCR	Selects input signal: TV input or video input.
VISUAL POWER	TV/VCR/ LD player	Turns on or off the power.
TV CONTROL ON	TV	Turns on the TV, switches the input to "TV," and sets the remote to operate the TV.
-/- -	TV	Selects the channel entry mode, either one or two digit (in Europe only).
SUB CH +/–	TV	Selects preset channels for the small picture.**
POSITION	TV	Changes the position of the small picture.**
SWAP	TV	Swaps the small and the large picture.**
P IN P	TV	Activates the picture-in-picture function.**
JUMP	TV	Jumps back and forth between the previous and current channels.
ANT TV/VTR	VCR	Selects output signal from the antenna terminal: TV signal or VCR programme.
MASTER VOL +/–	TV	Normally, adjusts the master volume of the amplifier. If TV CONTROL ON was pressed, it adjusts the volume on the TV.
MUTING	TV	Normally, mutes the sound from the amplifier. If TV CONTROL ON was pressed, the sound on the TV itself is muted.
SLOPE	—	Not applicable.
BAND	—	Not applicable.

* RMS: Random Music Sensor

** Only for Sony TVs with the picture-in-picture function

Note

Some Sony equipment cannot be controlled by this remote as shown in the table above.

SECTION 2
EXPLANATION OF IC TERMINALS

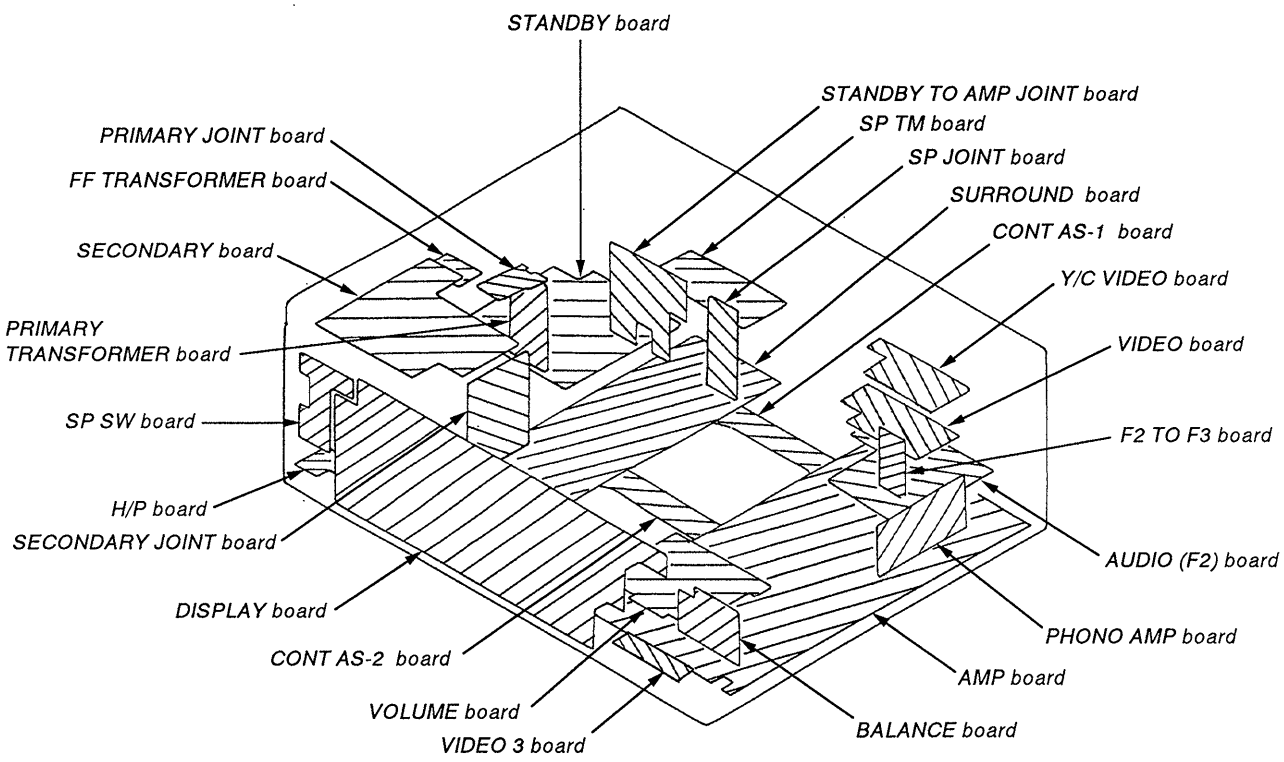
IC104 MB90673PF-G-156-BND (SYSTEM CONTROL)

Pin No.	Pin name	I/O	Description
1	V-A	O	Video A control.
2	V-B	O	Video B control.
3	KEY-IN	I	key input 1.
4	KEY-IN	I	key input 2.
5	KEY-IN	I	key input 3.
6	KEY-IN	I	key input 4.
7	KEY-IN	I	key input 5.
8	KEY-IN	I	key input 6.
9	KEY-IN	I	key input 7.
10	DATA IN	I	PLL data input.
11	GND	–	Ground.
12	FL-LATCH	O	Fluorescent indicator tube latch output.
13	POWER RY	O	Power relay drive.
14	RM IN	I	SIRCS signal input.
15	BRID RY	O	Bridgiable relay drive.
16	SURR RY	O	Surround relay drive.
17	CENTER RY	O	Center relay drive.
18	SP RY	O	Speaker relay drive.
19	SP-OFF IN	I	Speaker OFF DET.
20	UART	–	Not used (Ground).
21	UART	–	Not used (Ground).
22	UART	–	Not used (Ground).
23	FL-CLR	O	Fluorescent indicator tube latch clear output.
24	FL-DATA	O	Fluorescent indicator tube data output.
25	FL-CLK	O	Fluorescent indicator tube clock output.
26	PROTECT-IN	I	Protect DET input.
27	4-8-IN	I	4-8 input.
28	AVcc-5V	–	Power supply (+5V).
29	AVREF-5V	–	Reference voltage (+5V).
30	AVREF-0V	–	Reference voltage (+5V).
31	GND	–	Ground.
32	AD IN2	–	Not used (Open).
33	NC	–	Not used (Ground).
34	Vss-GND	–	Ground.
35	AD IN1	I	Bass boost key input.
36	ST-BY	O	Standby LED drive.
37	VRLED	O	Volume LED drive.
38	VOL +	O	Volume + control.
39	VOL –	O	Volume – control.
40	PULL UP	–	Pull up terminal.

Pin No.	Pin name	I/O	Description
41	5V	–	+5V.
42	5V	–	+5V.
43	GND	–	Ground.
44	5V	–	+5V.
45	STOP	I	Stop input.
46	NC	–	Not used (Ground).
47	NC	–	Not used (Ground).
48	NC	–	Not used (Ground).
49	CTRAIN	–	Not used (Ground).
50	TV	–	Not used (Ground).
51	VIDEO1	–	Not used (Ground).
52	VIDEO2	–	Not used (Ground).
53	KEY-OUT	O	Key output.
54	KEY-OUT	O	Key output.
55	KEY-OUT	O	Key output.
56	KEY-OUT	O	Key output.
57	KEY-OUT	O	Key output.
58	KEY-OUT	O	Key output.
59	CTRAOUT	–	Not used (Open).
60	V-E	O	Video E control.
61	S-OUT	–	Not used (Open).
62	RESET	I	System reset input.
63	Vss-GND	–	Ground.
64	OSC	I	System clock OSC (4MHz).
65	OSC	O	System clock OSC (4MHz).
66	Vcc-5V	–	Power supply (+5V).
67	T-LATCH	O	Tone latch output.
68	S-LATCH	O	Surround latch output.
69	S-MUTE	O	Surround mute output.
70	F-MUTE	O	Function mute output.
71	SW3-1	–	Not used (Ground).
72	BASS BOOST	O	Bass boost drive.
73	POWER KEY IN	I	Power key input.
74	LED-DATA	O	LED data output.
75	CLK	O	Serial clock output.
76	DATA	O	Serial data output.
77	PLL-LATCH	O	PLL latch output.
78	A STOP	–	Not used (Open).
79	TUNER-MUTE	–	Not used (Open).
80	STEREO	–	Not used (Open).

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



• SEMICONDUCTOR LOCATION

Ref. No.	Location
D401	F - 15
D402	D - 13
D403	B - 11
IC201	I - 3
IC203	J - 15
IC204	J - 13
IC301	I - 8
IC302	B - 10
IC303	D - 11
IC304	C - 5
IC305	C - 11
IC401	D - 14
IC402	F - 14
IC403	C - 20
IC404	E - 20
IC407	F - 17
IC501	B - 18
IC502	D - 18
IC503	B - 12
Q204	I - 15
Q206	I - 13
Q207	I - 13
Q208	I - 14
Q210	I - 13
Q211	I - 14
Q231	H - 3
Q232	H - 3
Q233	H - 3
Q234	H - 3
Q235	J - 3
Q236	J - 3
Q301	F - 11
Q302	F - 11
Q401	C - 19
Q402	C - 20
Q403	F - 15
Q409	F - 12
Q410	G - 13
Q411	D - 13
Q461	G - 12
Q462	F - 12
Q501	D - 17
Q502	C - 17
Q551	E - 18
Q552	D - 18

Note:

- O— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

【AUDIO (F2) BOARD】

【SURROUND BOARD】

【VIDEO BOARD】

【F2 TO F3 BOARD】

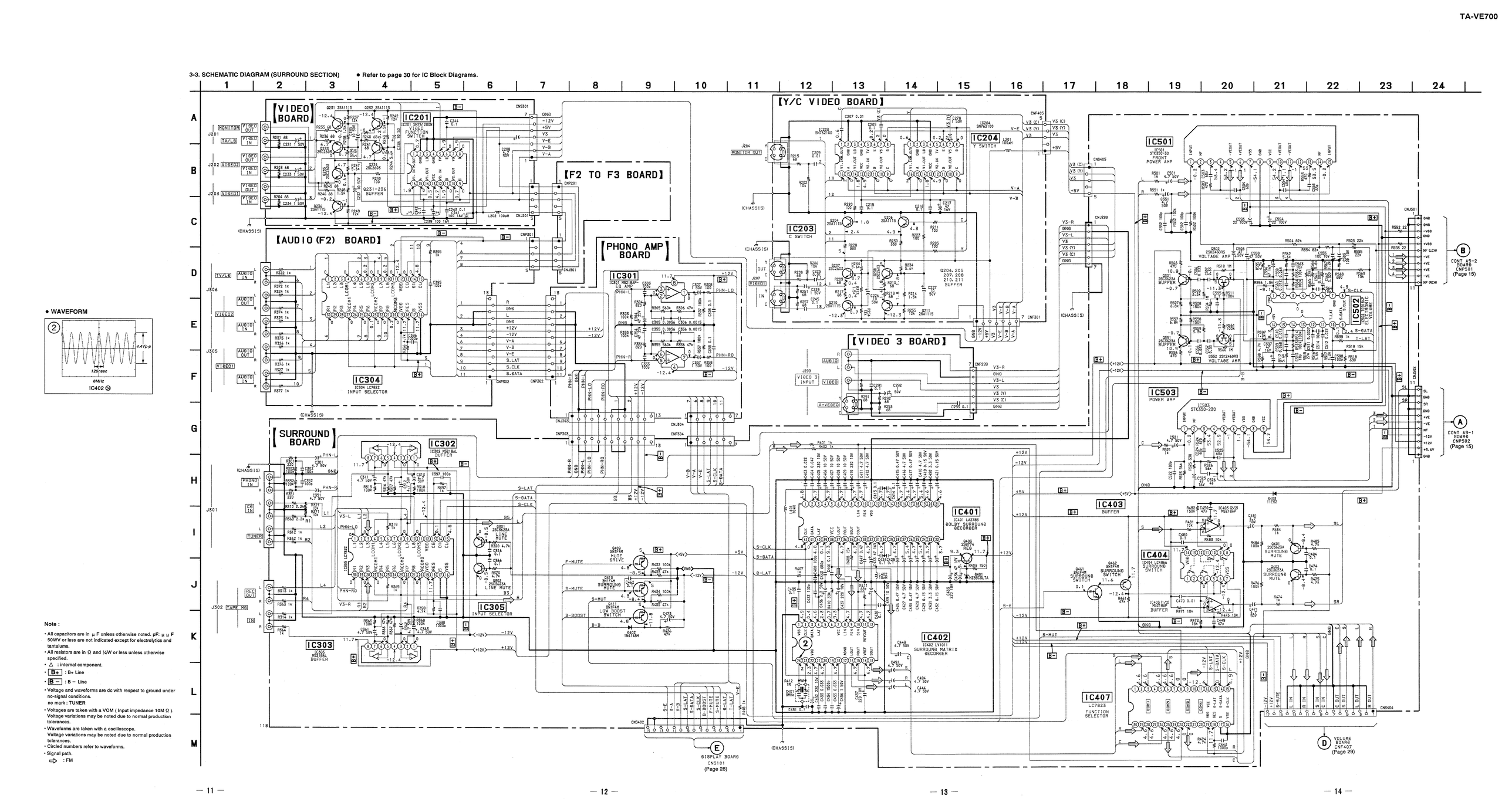
【PHONO AMP BOARD】

【Y/C VIDEO BOARD】

【VIDEO 3 BOARD】

3-3. SCHEMATIC DIAGRAM (SURROUND SECTION)

● Refer to page 30 for IC Block Diagrams.

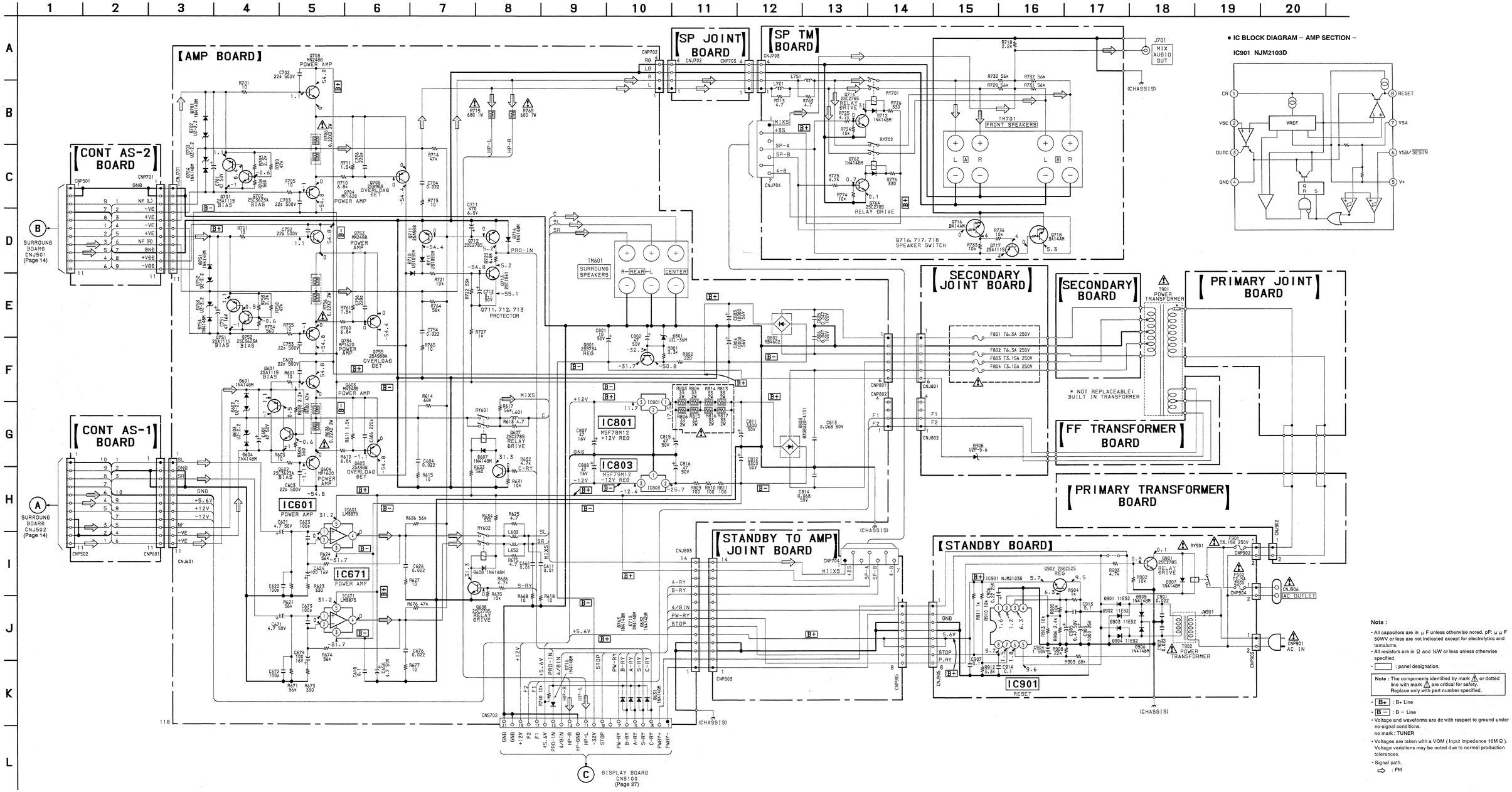


● WAVEFORM

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : TUNER
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

3-4. SCHEMATIC DIAGRAM (AMP SECTION)



● IC BLOCK DIAGRAM – AMP SECTION –

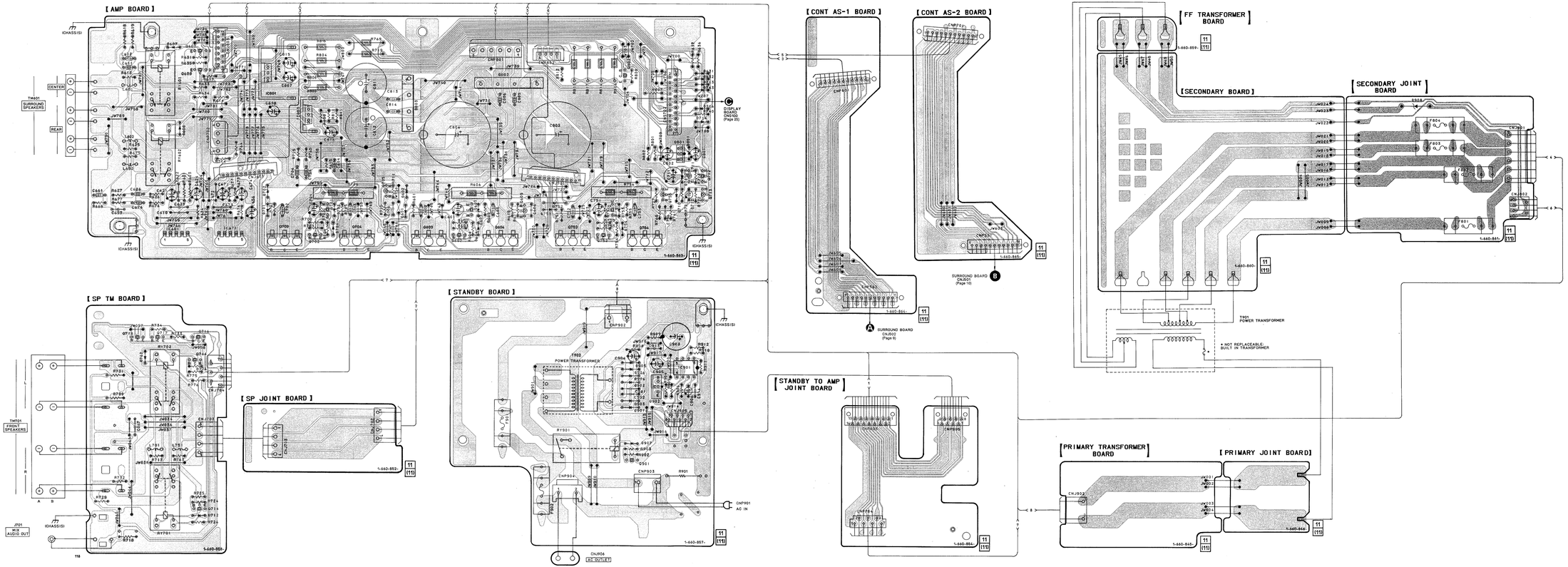
IC901 NJM2103D

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantaluma.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- [ ] : panel designation.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : TUNER
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM



● SEMICONDUCTOR LOCATION

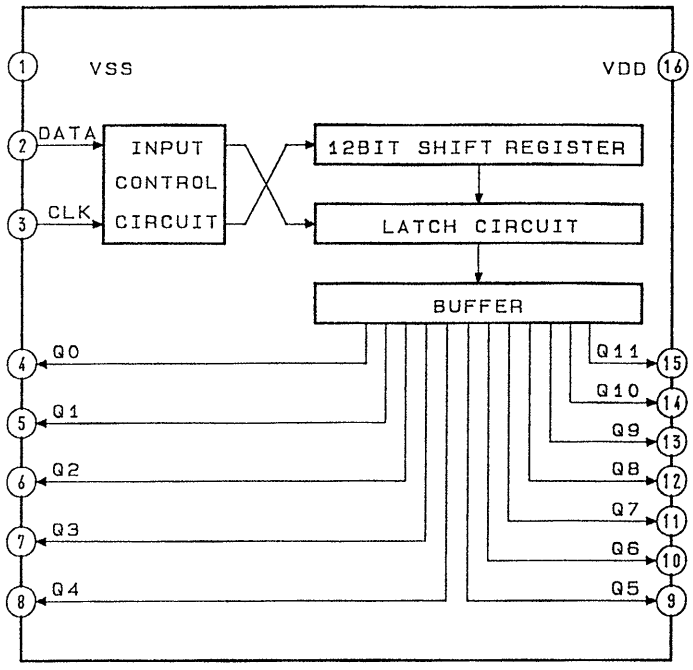
Ref. No.	Location	Ref. No.	Location
D601	E - 8	IC601	E - 4
D602	D - 8	IC871	E - 5
D603	D - 9	IC801	B - 5
D604	E - 9	IC803	C - 6
D607	B - 4	IC901	G - 13
D608	C - 4		
D631	B - 13	Q601	D - 9
D632	B - 13	Q602	E - 9
D701	E - 5	Q603	E - 8
D702	D - 5	Q604	E - 9
		Q605	D - 10
D703	D - 7		
D704	E - 6	Q607	B - 4
D710	D - 13	Q608	B - 4
D711	D - 13	Q701	D - 6
D712	J - 4	Q702	E - 6
		Q703	E - 6
D713	B - 13		
D714	C - 13	Q704	E - 7
D716	C - 13	Q705	D - 7
D751	D - 10	Q711	D - 13
D752	D - 10	Q712	D - 13
		Q713	D - 13
D753	D - 12		
D754	E - 12	Q714	J - 4
D782	G - 3	Q716	G - 4
D783	B - 13	Q717	G - 3
D801	C - 13	Q718	G - 3
		Q751	D - 11
D802	B - 10		
D803	C - 8	Q752	E - 11
D901	H - 12	Q753	E - 11
D902	H - 12	Q754	E - 12
D903	H - 12	Q755	D - 12
		Q764	G - 4
D904	G - 12		
D905	G - 12	Q801	C - 13
D906	G - 12	Q802	B - 12
D907	I - 12	Q901	I - 12
D908	C - 26	Q902	H - 12

Note:

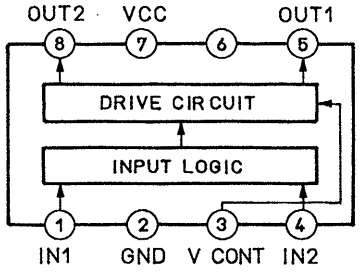
- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

• IC BLOCK DIAGRAMS – DISPLAY SECTION –

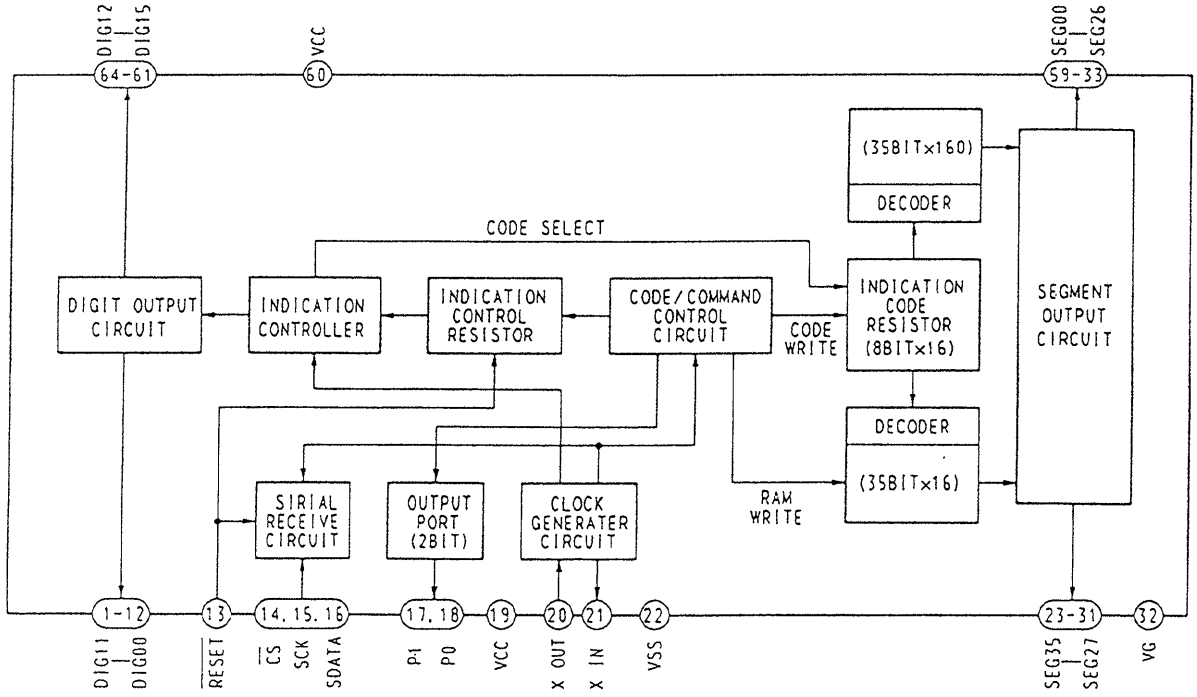
IC101 M50253P



IC103 LB1639



IC105 M66004M6FP



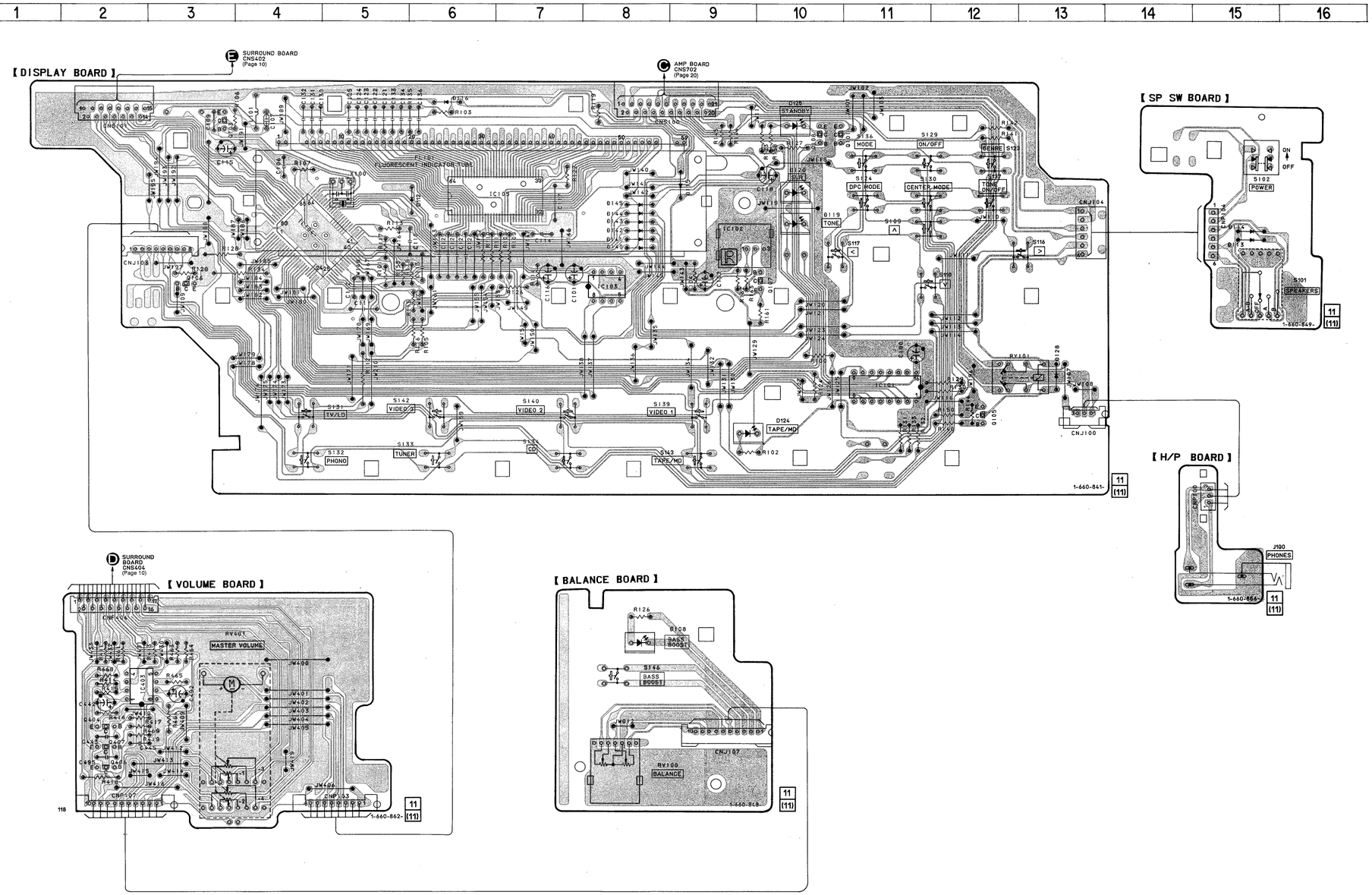
3-6. PRINTED WIRING BOARDS (DISPLAY SECTION)

• SEMICONDUCTOR LOCATION

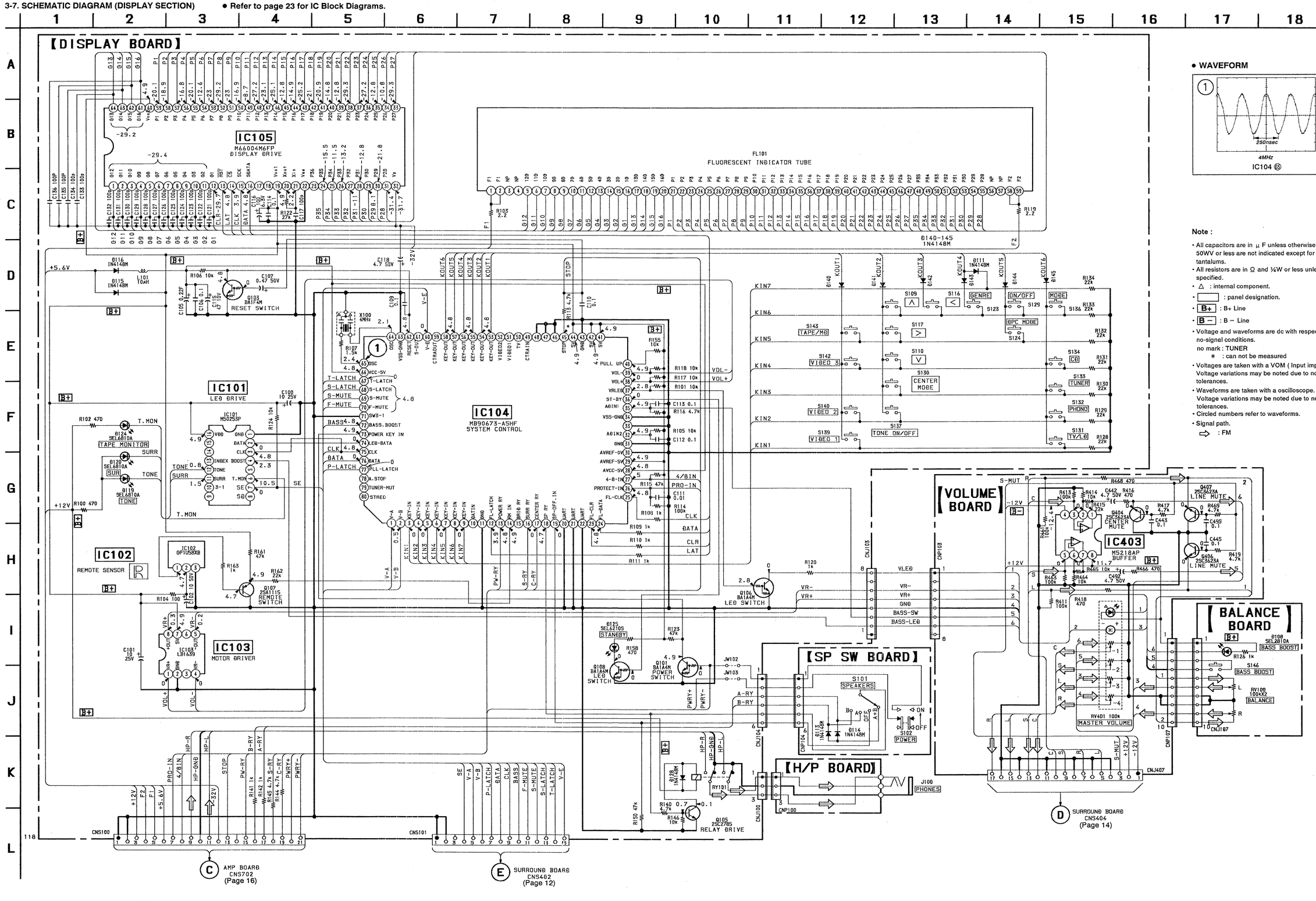
Ref. No.	Location
D108	H - 8
D112	C - 6
D113	C - 15
D114	C - 15
D115	B - 9
D116	A - 6
D119	C - 10
D120	C - 10
D124	E - 9
D125	B - 10
D128	E - 13
D140	C - 8
D141	C - 8
D142	C - 8
D143	C - 8
D144	C - 8
D145	C - 8
IC101	E - 11
IC102	C - 9
IC103	D - 8
IC104	C - 4
IC105	C - 6
IC403	H - 2
Q101	B - 10
Q103	B - 3
Q105	E - 12
Q106	D - 3
Q107	D - 10
Q108	B - 10
Q404	I - 2
Q406	I - 2
Q407	I - 2

Note:

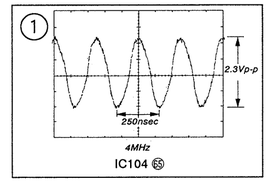
- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)



3-7. SCHEMATIC DIAGRAM (DISPLAY SECTION) ● Refer to page 23 for IC Block Diagrams.



● WAVEFORM

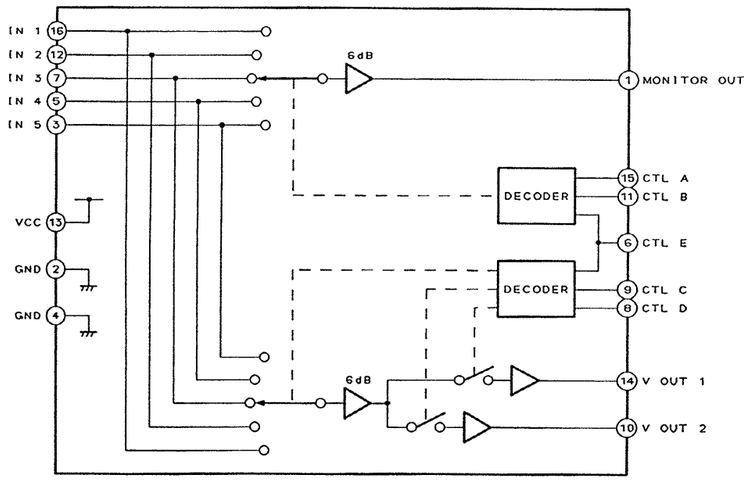


Note :

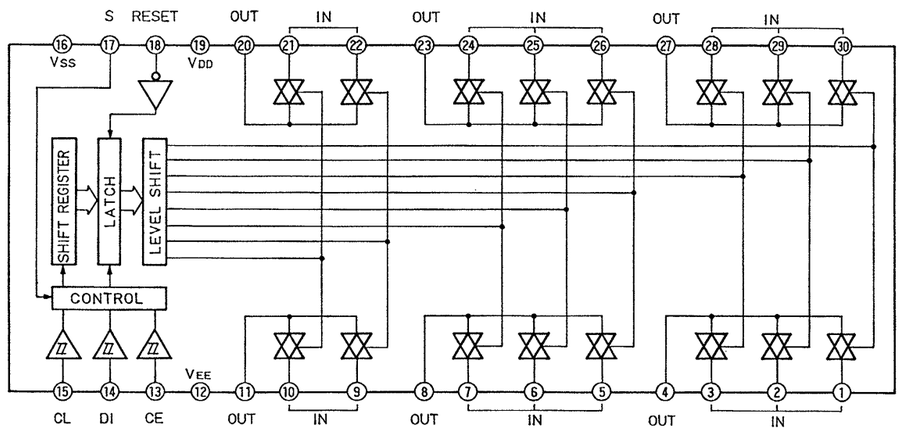
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- [ ] : panel designation.
- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : TUNER
  ＊ : can not be measured
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

• IC BLOCK DIAGRAMS – SURROUND SECTION –

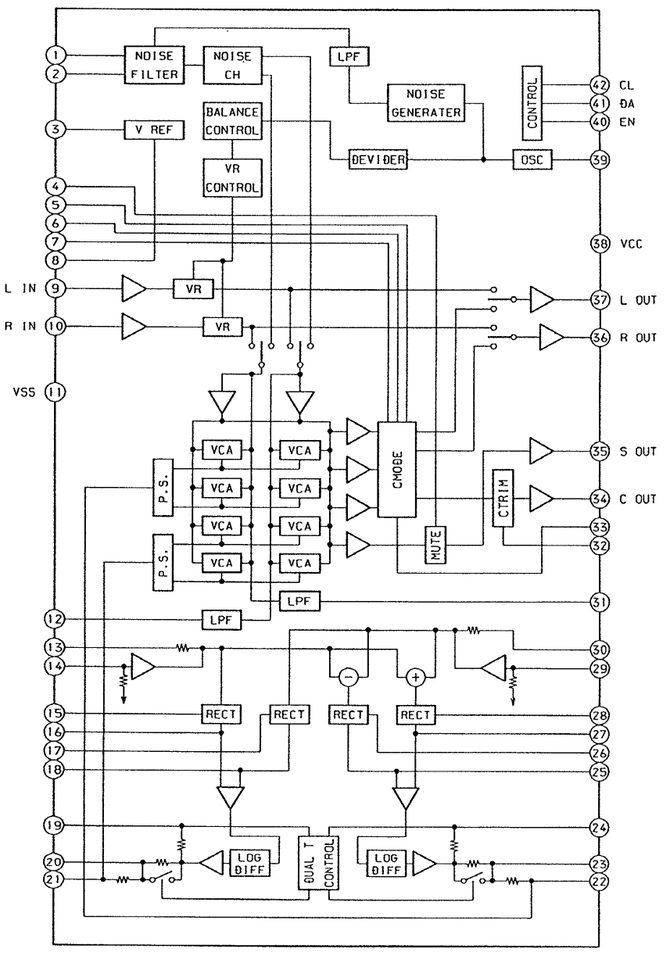
IC201, 203, 204 SN761200



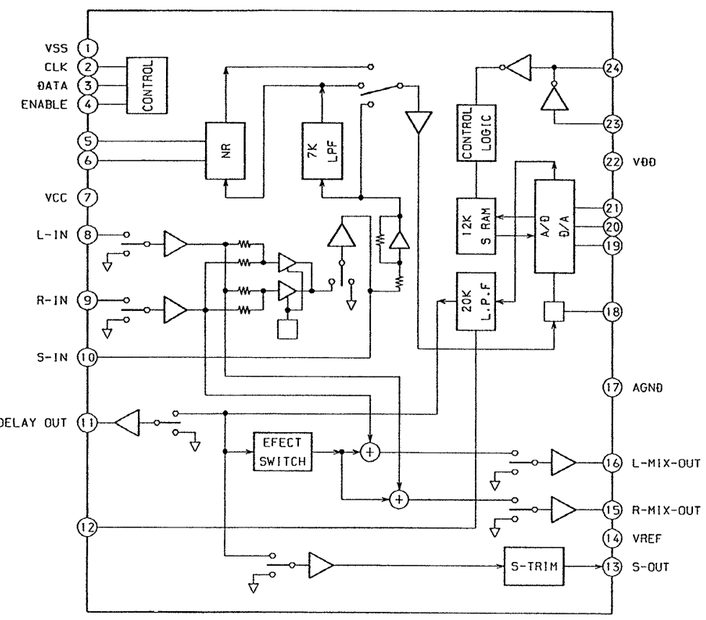
IC304, 305 LC7822



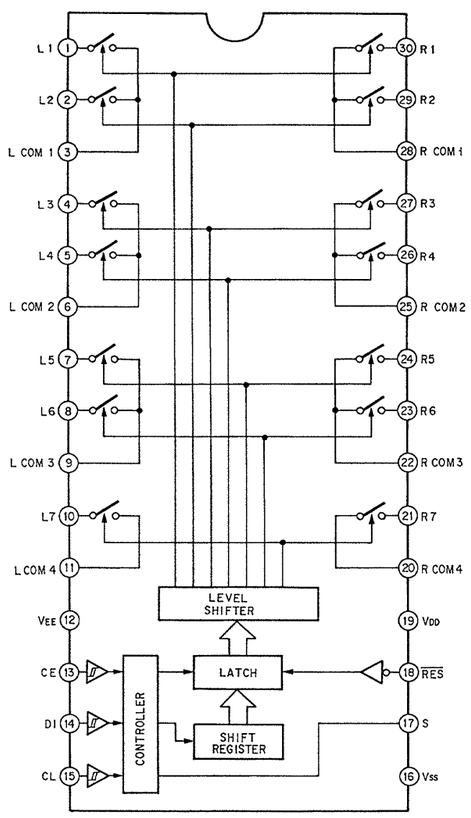
IC401 LA2785



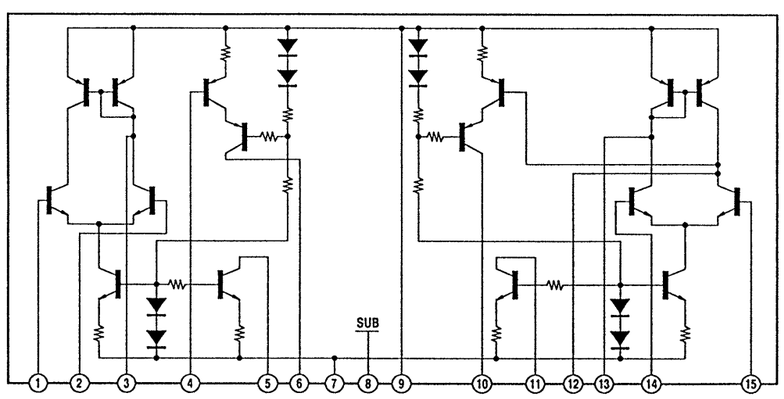
IC402 LV1011



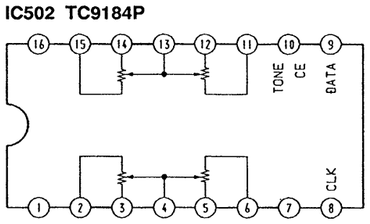
IC407 LC7823



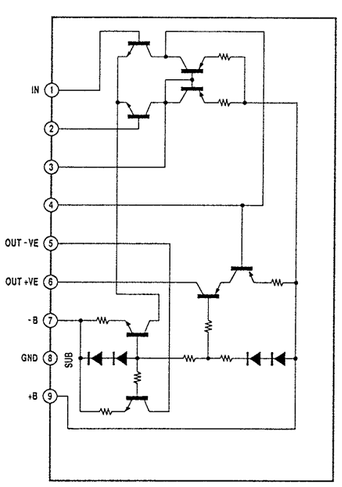
IC501 STK350-030



IC502 TC9184P



IC503 STK350-230



SECTION 4
EXPLODED VIEWS

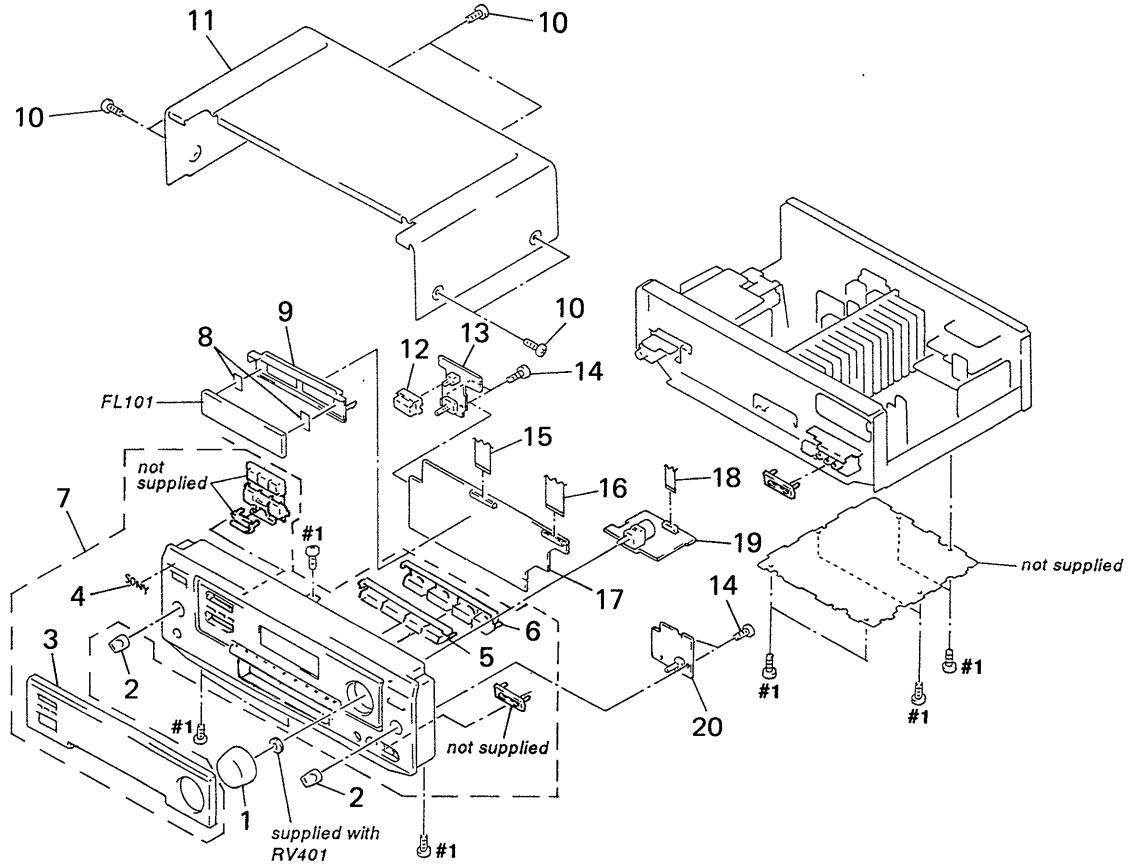
NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) (RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

SP	: Singapore	MY	: Malaysia
IT	: Italian	CH	: Chinese
G	: German		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

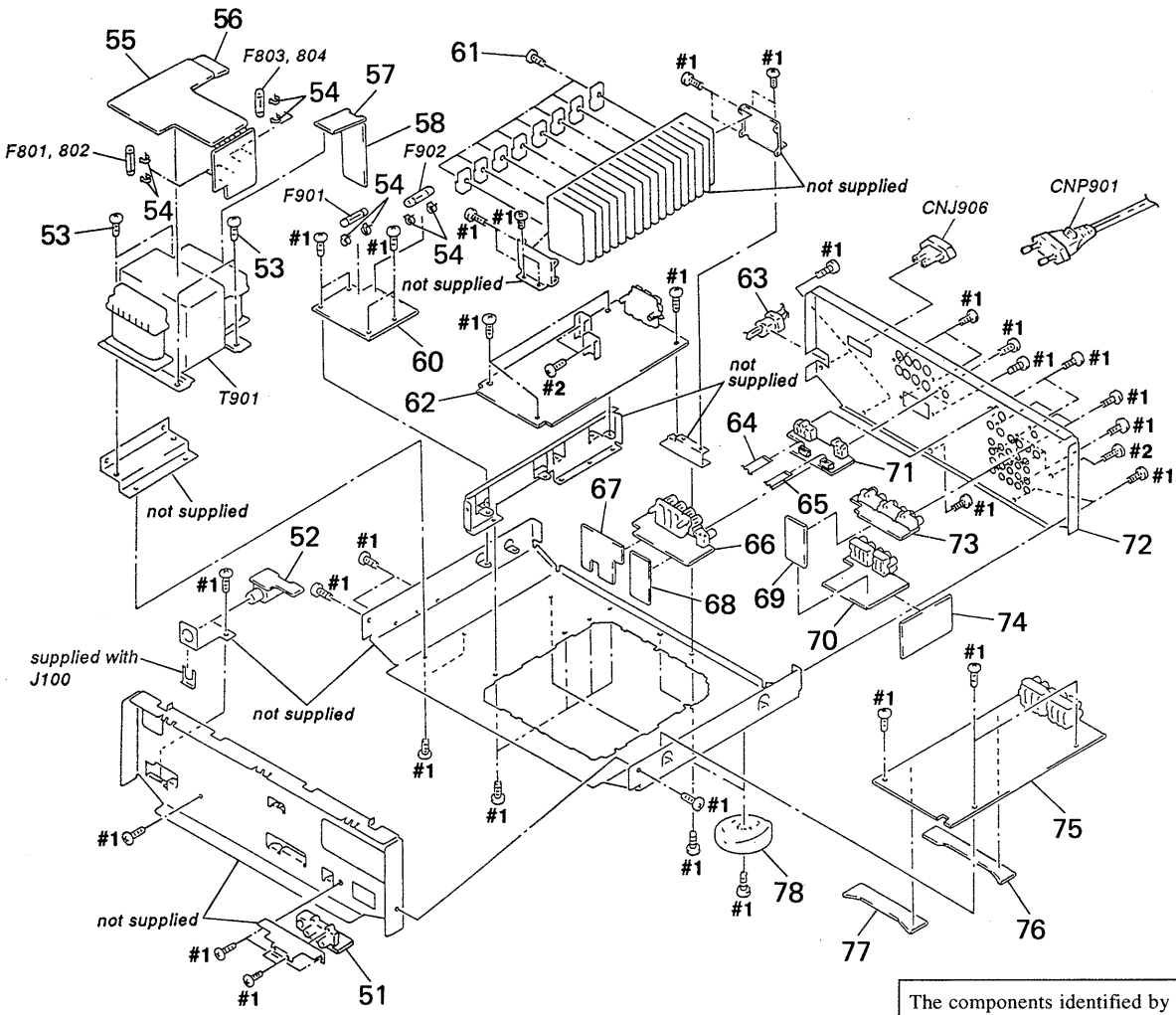
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4947-074-1	KNOB (R48) ASSY (BLACK)	
1	X-4947-394-1	KNOB (R48) ASSY (GOLD)	
2	4-957-383-01	KNOB (F14)	
3	4-980-631-51	PLATE (A4),INDICATION	
4	4-963-404-21	EMBLEM (5-A), SONY (BLACK)	
4	4-963-404-41	EMBLEM (5-A), SONY (GOLD)	
5	4-981-646-11	BUTTON (F-A) (BLACK)	
5	4-981-646-21	BUTTON (F-A) (GOLD)	
6	4-981-647-11	BUTTON (F-B) (BLACK)	
6	4-981-647-21	BUTTON (F-B) (GOLD)	
7	X-4947-068-1	PANEL ASSY, FRONT (BLACK)	
7	X-4947-393-1	PANEL ASSY, FRONT (GOLD)	
* 8	4-921-941-01	CUSHION (FL)	
* 9	4-981-656-01	HOLDER (C), FL INDICATION TUBE	

Ref. No.	Part No.	Description	Remark
10	3-704-366-01	SCREW (CASE) (M3X8) (BLACK)	
10	3-704-366-11	SCREW (CASE) (M3X8) (GOLD)	
11	X-4947-723-1	CASE ASSY (GOLD)	
11	X-4947-722-1	CASE ASSY (BLACK)	
12	4-980-109-01	BUTTON (P-M)	
* 13	1-660-849-11	SP SW BOARD	
14	4-951-620-01	SCREW (2.6X8), +BVTP	
15	1-773-154-11	WIRE (FLAT TYPE) (21 CORE)	
16	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)	
* 17	A-4390-064-A	DISPLAY BOARD, COMPLETE	
18	1-773-040-11	WIRE (FLAT TYPE) (17 CORE)	
* 19	1-660-842-11	VOLUME BOARD	
* 20	1-660-848-11	BALANCE BOARD	
FL101	1-517-519-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	1-660-844-11	VIDEO 3 BOARD	
* 52	1-660-856-11	H/P BOARD	
53	4-381-962-11	SCREW +BVTT 4X8 (S)	
54	1-533-217-31	HOLDER,FUSE	
* 55	1-660-860-11	SECONDARY BOARD	
* 56	1-660-859-11	FF TRANSFORMER BOARD	
* 57	1-660-846-11	PRIMARY JOINT BOARD	
* 58	1-660-845-11	PRIMARY TRANSFROMER BOARD	
* 59	1-660-860-11	SECONDARY BOARD	
* 60	1-660-857-11	STANDBY BOARD	
61	3-905-609-01	SCREW (TRANSISTOR)	
* 62	A-4390-077-A	SURROUND BOARD, COMPLETE	
* 63	3-703-244-00	BUSHING (2104), CORD	
64	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)	
65	1-769-861-11	WIRE (FLAT TYPE) (5 CORE)	
* 66	1-660-858-11	SP TM BOARD	
* 67	1-660-854-11	STANDBY TO AMP JOINT BOARD	
* 68	1-660-852-11	SP JOINT BOARD	
* 69	1-660-843-11	F2 TO F3 BOARD	
* 70	1-660-850-11	AUDIO (F2) BOARD	

Ref. No.	Part No.	Description	Remark
* 71	1-660-855-11	Y/C VIDEO BOARD	
* 72	4-981-658-01	PANEL, BACK (AEP,UK,G,IT)	
* 72	4-981-658-11	PANEL, BACK (SP,MY,CH)	
* 73	A-4390-069-A	VIDEO BOARD, COMPLETE	
* 74	1-660-847-11	PHONO AMP BOARD	
* 75	A-4390-076-A	AMP BOARD, COMPLETE	
* 76	1-660-864-11	CONT AS-1 BOARD	
* 77	1-660-865-11	CONT AS-2 BOARD	
78	X-4947-207-1	FOOT ASSY (F50150S) (BLACK)	
78	X-4947-547-1	FOOT ASSY (F50150S) (GOLD)	
⚠CNJ906	1-526-794-11	OUTLET, AC (AC OUTLET)	
⚠CNP901	1-769-744-11	CORD, POWER	
⚠F801	1-532-506-51	FUSE,.TIME LAG (T6.3AL/250V)	
⚠F802	1-532-506-51	FUSE ,TIME LAG (T6.3AL/250V)	
⚠F803	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)	
⚠F804	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)	
⚠F901	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)	
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V)	
⚠T901	1-429-610-11	TRANSFORMER, POWER	

AMP

SECTION 5
ELECTRICAL PARTS LIST

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  SP : Singapore MY : Malaysia
  IT : Italian CH : Chinese
  G : German

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4390-076-A	AMP BOARD, COMPLETE			
		**********			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C601	1-124-910-11	ELECT	47uF	20%	50V
C602	1-107-597-11	CERAMIC	22PF	10%	500V
C603	1-107-597-11	CERAMIC	22PF	10%	500V
C604	1-136-157-00	FILM	0.022uF	5%	50V
C606	1-162-286-31	CERAMIC	220PF	10%	50V
C610	1-164-159-11	CERAMIC	0.1uF		50V
C611	1-164-096-11	CERAMIC	0.01uF		50V
C621	1-126-963-11	ELECT	4.7uF	20%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-162-282-31	CERAMIC	100PF	10%	50V
C624	1-104-665-11	ELECT	100uF	20%	16V
C626	1-136-157-00	FILM	0.022uF	5%	50V
C656	1-126-963-11	ELECT	4.7uF	20%	50V
C661	1-164-096-11	CERAMIC	0.01uF		50V
C671	1-126-963-11	ELECT	4.7uF	20%	50V
C672	1-162-282-31	CERAMIC	100PF	10%	50V
C673	1-162-282-31	CERAMIC	100PF	10%	50V
C674	1-104-665-11	ELECT	100uF	20%	16V
C676	1-136-157-00	FILM	0.022uF	5%	50V
C701	1-124-910-11	ELECT	47uF	20%	50V
C702	1-107-597-11	CERAMIC	22PF	10%	500V
C703	1-107-597-11	CERAMIC	22PF	10%	500V
C704	1-136-157-00	FILM	0.022uF	5%	50V
C706	1-162-286-31	CERAMIC	220PF	10%	50V
C711	1-126-941-11	ELECT	470uF	20%	6.3V
C712	1-124-463-00	ELECT	0.1uF	20%	50V
C751	1-124-910-11	ELECT	47uF	20%	50V
C752	1-107-597-11	CERAMIC	22PF	10%	500V
C753	1-107-597-11	CERAMIC	22PF	10%	500V
C754	1-136-157-00	FILM	0.022uF	5%	50V
C756	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description			Remark
C801	1-124-907-11	ELECT	10uF	20%	50V
C802	1-124-910-11	ELECT	47uF	20%	50V
C803	1-111-263-11	ELECT	10000uF	20%	56V
C804	1-111-263-11	ELECT	10000uF	20%	56V
C805	1-137-420-11	FILM	0.047uF	10%	100V
C806	1-137-420-11	FILM	0.047uF	10%	100V
C807	1-104-664-11	ELECT	47uF	20%	16V
C808	1-104-664-11	ELECT	47uF	20%	16V
C811	1-126-974-11	ELECT	3300uF	20%	50V
C812	1-126-974-11	ELECT	3300uF	20%	50V
C813	1-136-163-00	FILM	0.068uF	5%	50V
C814	1-136-163-00	FILM	0.068uF	5%	50V
C815	1-124-910-11	ELECT	47uF	20%	50V
C816	1-124-910-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
CNJ601	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNJ701	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNJ803	1-770-383-11	CONNECTOR, BOARD TO BOARD 14P			
CNP702	1-770-481-11	PIN, CONNECTOR 4P			
* CNP801	1-560-259-00	CONNECTOR PIN,WITH LOCK 6P			
* CNP802	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P			
CNS702	1-568-838-11	SOCKET, CONNECTOR 21P			
		< DIODE >			
D601	8-719-987-63	DIODE 1N4148M			
D602	8-719-010-06	DIODE UZ-2.2BS			
D603	8-719-010-06	DIODE UZ-2.2BS			
D604	8-719-987-63	DIODE 1N4148M			
D607	8-719-987-63	DIODE 1N4148M			
D608	8-719-987-63	DIODE 1N4148M			
D631	8-719-987-63	DIODE 1N4148M			
D632	8-719-987-63	DIODE 1N4148M			
D701	8-719-987-63	DIODE 1N4148M			
D702	8-719-010-06	DIODE UZ-2.2BS			
D703	8-719-010-06	DIODE UZ-2.2BS			
D704	8-719-987-63	DIODE 1N4148M			

Ref. No.	Part No.	Description			Remark
D710	8-719-815-85	DIODE 1S1585			
D711	8-719-815-85	DIODE 1S1585			
D713	8-719-987-63	DIODE 1N4148M			
D714	8-719-987-63	DIODE 1N4148M			
D716	8-719-987-63	DIODE 1N4148M			
D751	8-719-987-63	DIODE 1N4148M			
D752	8-719-010-06	DIODE UZ-2.2BS			
D753	8-719-010-06	DIODE UZ-2.2BS			
D754	8-719-987-63	DIODE 1N4148M			
D763	8-719-987-63	DIODE 1N4148M			
D801	8-719-002-76	DIODE UZL-36H			
D802	8-719-302-38	DIODE RBV-602-01			
D803	8-719-028-23	DIODE D3SBA20-4101			
		< IC >			
IC601	8-759-085-89	IC LM3875-S			
IC671	8-759-085-89	IC LM3875-S			
IC801	8-759-604-39	IC M5F78M12			
IC803	8-759-604-45	IC M5F79M12			
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE			
L602	1-420-872-00	COIL, AIR-CORE			
L652	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q603	8-749-010-25	IC MN2488-OPY-M			
Q604	8-749-010-26	IC MP1620-OPY-M			
Q605	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q607	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q608	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q703	8-749-010-25	IC MN2488-OPY-M			
Q704	8-749-010-26	IC MP1620-OPY-M			
Q705	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q711	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q712	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q753	8-749-010-25	IC MN2488-OPY-M			
Q754	8-749-010-26	IC MP1620-OPY-M			
Q755	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q801	8-729-140-97	TRANSISTOR 2SB734-34			
Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK			
		< RESISTOR >			
R600	1-249-437-11	CARBON	47K	5% 1/4W	
R601	1-249-393-11	CARBON	10	5% 1/4W	
R603	1-249-421-11	CARBON	2.2K	5% 1/4W	
R604	1-249-414-11	CARBON	560	5% 1/4W	
R605	1-249-393-11	CARBON	10	5% 1/4W	
⚠R606	1-233-352-21	ENCAPSULATED COMPONENT			F
R610	1-249-427-11	CARBON	6.8K	5% 1/4W	
R611	1-249-419-11	CARBON	1.5K	5% 1/4W	
R613	1-249-389-11	CARBON	4.7	5% 1/4W	
R614	1-249-439-11	CARBON	68K	5% 1/4W	
R615	1-249-393-11	CARBON	10	5% 1/4W	
R621	1-249-438-11	CARBON	56K	5% 1/4W	
R623	1-249-411-11	CARBON	330	5% 1/4W	
R624	1-249-438-11	CARBON	56K	5% 1/4W	
R625	1-249-389-11	CARBON	4.7	5% 1/4W	
R626	1-249-438-11	CARBON	56K	5% 1/4W	
R627	1-249-393-11	CARBON	10	5% 1/4W	
R631	1-249-429-11	CARBON	10K	5% 1/4W	
R632	1-249-425-11	CARBON	4.7K	5% 1/4W	
R633	1-249-411-11	CARBON	330	5% 1/4W	
R634	1-249-411-11	CARBON	330	5% 1/4W	
R635	1-249-429-11	CARBON	10K	5% 1/4W	
R636	1-249-425-11	CARBON	4.7K	5% 1/4W	
R662	1-249-417-11	CARBON	1K	5% 1/4W	
R671	1-249-438-11	CARBON	56K	5% 1/4W	
R672	1-249-417-11	CARBON	1K	5% 1/4W	
R673	1-249-411-11	CARBON	330	5% 1/4W	
R674	1-249-438-11	CARBON	56K	5% 1/4W	
R675	1-249-389-11	CARBON	4.7	5% 1/4W	
R676	1-249-437-11	CARBON	47K	5% 1/4W	
R677	1-249-393-11	CARBON	10	5% 1/4W	
R700	1-249-437-11	CARBON	47K	5% 1/4W	
R701	1-249-393-11	CARBON	10	5% 1/4W	
R703	1-249-421-11	CARBON	2.2K	5% 1/4W	
R704	1-249-414-11	CARBON	560	5% 1/4W	
R705	1-249-393-11	CARBON	10	5% 1/4W	
⚠R706	1-233-352-21	ENCAPSULATED COMPONENT			F
R710	1-249-427-11	CARBON	6.8K	5% 1/4W	
R711	1-249-419-11	CARBON	1.5K	5% 1/4W	
R714	1-249-437-11	CARBON	47K	5% 1/4W	
R715	1-249-393-11	CARBON	10	5% 1/4W	
⚠R719	1-215-868-00	METAL OXIDE	680	5% 1W	F
R721	1-249-429-11	CARBON	10K	5% 1/4W	
R722	1-249-435-11	CARBON	33K	5% 1/4W	
R723	1-249-427-11	CARBON	6.8K	5% 1/4W	
R727	1-249-417-11	CARBON	1K	5% 1/4W	
R735	1-249-409-11	CARBON	220	5% 1/4W	
R740	1-249-429-11	CARBON	10K	5% 1/4W	
R750	1-249-437-11	CARBON	47K	5% 1/4W	
R751	1-249-393-11	CARBON	10	5% 1/4W	
R753	1-249-421-11	CARBON	2.2K	5% 1/4W	
R754	1-249-414-11	CARBON	560	5% 1/4W	
R755	1-249-393-11	CARBON	10	5% 1/4W	
⚠R756	1-233-352-21	ENCAPSULATED COMPONENT			F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP | AUDIO (F2) | BALANCE | CONT AS-1

Ref. No.	Part No.	Description			Remark
R760	1-249-427-11	CARBON	6.8K	5%	1/4W
R761	1-249-419-11	CARBON	1.5K	5%	1/4W
R764	1-249-438-11	CARBON	56K	5%	1/4W
R765	1-249-393-11	CARBON	10	5%	1/4W
⚠R769	1-215-868-00	METAL OXIDE	680	5%	1W F
R801	1-247-843-11	CARBON	3.3K	5%	1/4W
R802	1-249-409-11	CARBON	220	5%	1/4W
⚠R803	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R804	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R806	1-215-883-11	METAL OXIDE	33	5%	2W F
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-405-11	CARBON	100	5%	1/4W
R810	1-249-405-11	CARBON	100	5%	1/4W
R811	1-249-385-11	CARBON	2.2	5%	1/6W
⚠R813	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R814	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R815	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R816	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R817	1-215-883-11	METAL OXIDE	33	5%	2W F
		< RELAY >			
RY601	1-515-765-11	RELAY			
RY602	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKERS)			

****

*	1-660-850-11	AUDIO (F2) BOARD **********			
		< CAPACITOR >			
C395	1-162-282-31	CERAMIC	100PF	10%	50V
C396	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNJ302	1-695-095-11	SOCKET, CONNECTOR 13P			
CNP301	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
		< DIODE >			
D113	8-719-987-63	DIODE 1N4148M			
D114	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC304	8-759-805-14	IC LC7822			
		< JACK >			
J305	1-580-825-11	JACK, PIN 6P (VIDEO 1(AUDIO OUT,AUDIO IN) VIDEO 2(AUDIO IN))			
J306	1-573-028-21	JACK, PIN 4P (TV/LD(AUDIO IN), VIDEO 2(AUDIO IN,OUT))			
		< RESISTOR >			
R322	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R374	1-249-417-11	CARBON	1K	5%	1/4W
R375	1-249-417-11	CARBON	1K	5%	1/4W
R376	1-249-417-11	CARBON	1K	5%	1/4W
R377	1-249-417-11	CARBON	1K	5%	1/4W
R395	1-249-417-11	CARBON	1K	5%	1/4W
R396	1-249-425-11	CARBON	4.7K	5%	1/4W

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*	1-660-848-11	BALANCE BOARD **********			
		< CONNECTOR >			
CNJ107	1-770-403-11	HOUSING,CONNECTOR (PC BOARD)10P			
		< DIODE >			
D108	8-719-301-49	LED SEL2810A (BASS BOOST)			
		< RESISTOR >			
R126	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV100	1-223-880-11	RES, VAR, CARBON 100K/100K (BALANCE)			
		< SWITCH >			
S146	1-554-303-21	SWITCH, TACTILE (BASS BOOST)			

****

*	1-660-864-11	CONT AS-1 BOARD **********			
		< CONNECTOR >			
CNP501	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP701	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
*	1-660-865-11	CONT AS-2 BOARD			
		**********			
		< CONNECTOR >			
CNP502	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP601	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	A-4390-064-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-981-656-01	HOLDER (C), FL INDICATION TUBE			
		< CAPACITOR >			
C100	1-126-096-11	ELECT	10uF	20%	35V
C101	1-126-096-11	ELECT	10uF	20%	35V
C102	1-124-261-00	ELECT	10uF	20%	50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-164-159-11	CERAMIC	0.1uF		50V
C107	1-136-173-00	FILM	0.47uF	5%	50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-162-306-11	CERAMIC	0.01uF	30%	16V
C112	1-164-159-11	CERAMIC	0.1uF		50V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-124-589-11	ELECT	47uF	20%	16V
C116	1-124-468-11	ELECT	100uF	20%	6.3V
C117	1-162-282-31	CERAMIC	100PF	10%	50V
C118	1-126-163-11	ELECT	4.7uF	20%	50V
C121	1-162-282-31	CERAMIC	100PF	10%	50V
C122	1-162-282-31	CERAMIC	100PF	10%	50V
C123	1-162-282-31	CERAMIC	100PF	10%	50V
C124	1-162-282-31	CERAMIC	100PF	10%	50V
C125	1-162-282-31	CERAMIC	100PF	10%	50V
C126	1-162-282-31	CERAMIC	100PF	10%	50V
C127	1-162-282-31	CERAMIC	100PF	10%	50V
C128	1-162-282-31	CERAMIC	100PF	10%	50V
C129	1-162-282-31	CERAMIC	100PF	10%	50V
C130	1-162-282-31	CERAMIC	100PF	10%	50V
C131	1-162-282-31	CERAMIC	100PF	10%	50V
C132	1-162-282-31	CERAMIC	100PF	10%	50V
C133	1-162-282-31	CERAMIC	100PF	10%	50V
C134	1-162-282-31	CERAMIC	100PF	10%	50V
C135	1-162-282-31	CERAMIC	100PF	10%	50V
C136	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR>			
CNJ100	1-770-396-11	HOUSING, CONNECTOR(PC BOARD)3P			
CNJ103	1-770-401-11	HOUSING, CONNECTOR(PC BOARD)8P			
* CNJ104	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P			
* CNS100	1-568-864-11	SOCKET, CONNECTOR 21P			

Ref. No.	Part No.	Description			Remark
* CNS101	1-568-858-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D112	8-719-987-63	DIODE 1N4148M			
D115	8-719-987-63	DIODE 1N4148M			
D116	8-719-987-63	DIODE 1N4148M			
D119	8-719-301-49	LED SEL2810A (TONE)			
D120	8-719-301-49	LED SEL2810A (SURR)			
D124	8-719-301-49	LED SEL2810A (TAPE/MD)			
D125	8-719-313-43	LED SEL6210S-TH10 (STANDBY)			
D128	8-719-987-63	DIODE 1N4148M			
D140	8-719-987-63	DIODE 1N4148M			
D141	8-719-987-63	DIODE 1N4148M			
D142	8-719-987-63	DIODE 1N4148M			
D143	8-719-987-63	DIODE 1N4148M			
D144	8-719-987-63	DIODE 1N4148M			
D145	8-719-987-63	DIODE 1N4148M			
		< FLUORESCENTFILTER INDICATOR TUBE >			
FL101	1-517-519-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-635-31	IC M50253P			
IC102	8-749-923-11	IC GP1U58XB			
IC103	8-759-820-62	IC LB1639			
IC104	8-759-398-27	IC MB90673PF-G-156-BND			
IC105	8-759-261-63	IC M66004M6FP			
		< COIL >			
L101	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q101	8-729-900-80	TRANSISTOR DTC114ES			
Q103	8-729-900-36	TRANSISTOR DTC124ES			
Q105	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q106	8-729-900-80	TRANSISTOR DTC114ES			
Q107	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q108	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R100	1-249-413-11	CARBON	470	5%	1/4W
R101	1-249-429-11	CARBON	10K	5%	1/4W
R102	1-249-413-11	CARBON	470	5%	1/4W
R103	1-249-385-11	CARBON	2.2	5%	1/6W
R104	1-247-807-31	CARBON	100	5%	1/4W
R105	1-249-429-11	CARBON	10K	5%	1/4W
R106	1-249-429-11	CARBON	10K	5%	1/4W
R107	1-249-419-11	CARBON	1.5K	5%	1/4W
R108	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-249-417-11	CARBON	1K	5%	1/4W
R110	1-249-417-11	CARBON	1K	5%	1/4W

DISPLAY | F2 TO F3 | FF TRANSFORMER | H/P | PHONO AMP

Ref. No.	Part No.	Description			Remark
R111	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-249-425-11	CARBON	4.7K	5%	1/4W
R114	1-249-441-11	CARBON	100K	5%	1/4W
R115	1-249-437-11	CARBON	47K	5%	1/4W
R116	1-249-425-11	CARBON	4.7K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-429-11	CARBON	10K	5%	1/4W
R119	1-249-385-11	CARBON	2.2	5%	1/6W
R120	1-249-417-11	CARBON	1K	5%	1/4W
R122	1-249-434-11	CARBON	27K	5%	1/4W
R123	1-249-437-11	CARBON	47K	5%	1/4W
R124	1-249-429-11	CARBON	10K	5%	1/4W
R128	1-249-433-11	CARBON	22K	5%	1/4W
R129	1-249-433-11	CARBON	22K	5%	1/4W
R130	1-249-433-11	CARBON	22K	5%	1/4W
R131	1-249-433-11	CARBON	22K	5%	1/4W
R132	1-249-433-11	CARBON	22K	5%	1/4W
R133	1-249-433-11	CARBON	22K	5%	1/4W
R134	1-249-433-11	CARBON	22K	5%	1/4W
R140	1-249-425-11	CARBON	4.7K	5%	1/4W
R141	1-249-417-11	CARBON	1K	5%	1/4W
R142	1-249-417-11	CARBON	1K	5%	1/4W
R144	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-249-425-11	CARBON	4.7K	5%	1/4W
R146	1-249-429-11	CARBON	10K	5%	1/4W
R150	1-249-437-11	CARBON	47K	5%	1/4W
R155	1-249-429-11	CARBON	10K	5%	1/4W
R158	1-249-413-11	CARBON	470	5%	1/4W
R161	1-249-437-11	CARBON	47K	5%	1/4W
R162	1-249-433-11	CARBON	22K	5%	1/4W
R163	1-249-417-11	CARBON	1K	5%	1/4W
		< RELAY >			
RY101	1-515-614-11	RELAY			
		< SWITCH >			
S109	1-554-303-21	SWITCH, TACTILE (△)			
S110	1-554-303-21	SWITCH, TACTILE (▽)			
S116	1-554-303-21	SWITCH, TACTILE (▷)			
S117	1-554-303-21	SWITCH, TACTILE (◁)			
S123	1-554-303-21	SWITCH, TACTILE (GENRE)			
S124	1-554-303-21	SWITCH, TACTILE (DPC MODE)			
S129	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)			
S130	1-554-303-21	SWITCH, TACTILE (CENTER MODE)			
S131	1-554-303-21	SWITCH, TACTILE (TV/LD)			
S132	1-554-303-21	SWITCH, TACTILE (PHONO)			
S133	1-554-303-21	SWITCH, TACTILE (TUNER)			
S134	1-554-303-21	SWITCH, TACTILE (CD)			
S136	1-554-303-21	SWITCH, TACTILE (MODE)			
S137	1-554-303-21	SWITCH, TACTILE (TONE ON/OFF)			
S139	1-554-303-21	SWITCH, TACTILE (VIDEO 1)			
S140	1-554-303-21	SWITCH, TACTILE (VIDEO 2)			
S142	1-554-303-21	SWITCH, TACTILE (VIDEO 3)			
S143	1-554-303-21	SWITCH, TACTILE (TAPE/MD)			
		< VIBRATOR >			
X100	1-567-819-11	VIBRATOR, CERAMIC (4.00MHz)			
**********					
*	1-660-843-11	F2 TO F3 BOARD			
		**********			
		< CONNECTOR>			
CNJ301	1-750-179-11	SOCKET, CONNECTOR 5P			
CNP201	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P			
**********					
*	1-660-859-11	FF TRANSFORMER BOARD			
		**********			
**********					
*	1-660-856-11	H/P BOARD			
		**********			
		< CONNECTOR >			
CNP100	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P			
		< JACK >			
J100	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	1-660-847-11	PHONO AMP BOARD			
		**********			
		< CAPACITOR >			
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-104-664-11	ELECT	47uF	20%	25V
C305	1-130-480-00	MYLAR	0.0056uF	5%	50V
C306	1-130-473-00	MYLAR	0.0015uF	5%	50V
C307	1-124-903-11	ELECT	1uF	20%	50V
C308	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-162-282-31	CERAMIC	100PF	10%	50V
C354	1-104-664-11	ELECT	47uF	20%	25V
C355	1-130-480-00	MYLAR	0.0056uF	5%	50V
C356	1-130-473-00	MYLAR	0.0015uF	5%	50V
C357	1-124-903-11	ELECT	1uF	20%	50V
C358	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR>			
CNJ303	1-695-095-11	SOCKET, CONNECTOR 13P			
CNJ304	1-695-092-11	SOCKET, CONNECTOR 7P			
CNP302	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC301	8-759-634-51	IC M5218AP			
		< RESISTOR >			
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R354	1-249-416-11	CARBON	820	5%	1/4W
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	1-660-846-11	PRIMARY JOINT BOARD			
		**********			
**********					
*	1-660-845-11	PRIMARY TRANSFORMER BOARD			
		**********			
		< CONNECTOR >			
CNJ902	1-770-568-11	SOCKET 3P			
**********					
*	1-660-860-11	SECONDARY BOARD			
		**********			
		< TRANSFORMER >			
⚠T901	1-429-610-11	TRANSFORMER, POWER			
**********					
*	1-660-861-11	SECONDARY JOINT BOARD			
		**********			
*	1-533-217-31	HOLDER, FUSE			
		< CONNECTOR >			
* CNJ801	1-750-533-11	SOCKET 6P			
* CNJ802	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D908	8-719-014-66	DIODE UZP-5.6B			
		< FUSE >			
⚠F801	1-532-506-51	FUSE,TIME LAG (6.3A 250V)			
⚠F802	1-532-506-51	FUSE,TIME LAG (6.3A 250V)			
⚠F803	1-532-465-51	FUSE,TIME LAG (3.15A 250V)			
⚠F804	1-532-465-51	FUSE,TIME LAG (3.15A 250V)			
**********					
*	1-660-852-11	SP JOINT BOARD			
		**********			
		< CONNECTOR >			
CNJ702	1-770-569-11	SOCKET 4P			
CNP703	1-770-481-11	PIN, CONNECTOR 4P			
**********					
*	1-660-849-11	SP SW BOARD			
		**********			
		< CONNECTOR >			
* CNP104	1-569-798-11	PLUG, CONNECTOR 6P			
		< SWITCH >			
S101	1-762-268-11	SWITCH, ROTARY (SPEAKERS)			
S102	1-554-118-00	SWITCH, PUSH (1 KEY)(POWER)			
**********					
*	1-660-858-11	SP TM BOARD			
		**********			
		< CONNECTOR >			
CNJ703	1-770-569-11	SOCKET 4P			
CNJ704	1-695-092-11	SOCKET, CONNECTOR 7P			
CNJ905	1-770-380-11	CONNECTOR, BOARD TO BOARD 8P			
		< DIODE >			
D712	8-719-987-63	DIODE 1N4148M			
D762	8-719-987-63	DIODE 1N4148M			
		< JACK >			
J701	1-770-377-21	JACK, PIN 1P (MIX(AUDIO OUT))			
		< COIL >			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q714	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q716	8-729-900-80	TRANSISTOR DTC114ES			
Q717	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q718	8-729-900-80	TRANSISTOR DTC114ES			
Q764	8-729-119-79	TRANSISTOR 2SC2785-FEK			
		< RESISTOR >			
R713	1-249-389-11	CARBON	4.7	5%	1/4W
R718	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-249-429-11	CARBON	10K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SP TM **STANDBY** **STANDBY TO AMP JOINT** **SURROUND**

Ref. No.	Part No.	Description			Remark
R726	1-249-411-11	CARBON	330	5%	1/4W
R729	1-249-438-11	CARBON	56K	5%	1/4W
R730	1-249-438-11	CARBON	56K	5%	1/4W
R731	1-249-438-11	CARBON	56K	5%	1/4W
R732	1-249-438-11	CARBON	56K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
R763	1-249-389-11	CARBON	4.7	5%	1/4W
R774	1-249-429-11	CARBON	10K	5%	1/4W
R775	1-249-425-11	CARBON	4.7K	5%	1/4W
R776	1-249-411-11	CARBON	330	5%	1/4W
		< RELAY >			
RY701	1-515-765-11	RELAY			
RY702	1-515-765-11	RELAY			
		< TERMINAL >			
* TM701	1-537-519-11	TERMINAL BOARD (SP) (FRONT SPEAKERS)			
**********					
*	1-660-857-11	STANDBY BOARD			
		**********			
	1-533-217-31	HOLDER,FUSE			
		< CAPACITOR >			
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-126-942-61	ELECT	1000uF	20%	25V
C904	1-124-903-11	ELECT	1uF	20%	50V
C905	1-124-902-00	ELECT	0.47uF	20%	50V
C906	1-124-464-11	ELECT	0.22uF	20%	50V
C913	1-164-159-11	CERAMIC	0.1uF		50V
C914	1-164-159-11	CERAMIC	0.1uF		50V
		< AC OUTLET>			
⚠CNJ906	1-5269794-11	OUTLET, AC (AC OUTLET)			
		< CONNECTOR >			
* CNP902	1-564-751-11	PIN, CONNECTOR (WITH LOCK) 2P			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
* CNP904	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D901	8-719-024-99	DIODE 11ES2-NTA2B			
D902	8-719-024-99	DIODE 11ES2-NTA2B			
D903	8-719-024-99	DIODE 11ES2-NTA2B			
D904	8-719-024-99	DIODE 11ES2-NTA2B			
D905	8-719-987-63	DIODE 1N4148M			
D906	8-719-987-63	DIODE 1N4148M			
D907	8-719-987-63	DIODE 1N4148M			

Ref. No.	Part No.	Description			Remark
		< FUSE >			
⚠F901	1-532-465-51	FUSE,TIME LAG (3.15A 250V)			
⚠F902	1-532-464-51	FUSE,TIME LAG (2.5A 250V)			
		< IC >			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-030-18	TRANSISTOR 2SD2525			
		< RESISTOR >			
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-429-11	CARBON	10K	5%	1/4W
R906	1-247-840-00	CARBON	2.4K	5%	1/4W
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R911	1-249-417-11	CARBON	1K	5%	1/4W
R912	1-247-843-11	CARBON	3.3K	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-450-358-11	TRANSFORMER, POWER			
**********					
*	1-660-854-11	STANDBY TO AMP JOINT BOARD			
		**********			
		< CONNECTOR >			
CNP704	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
CNP803	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
CNP905	1-770-405-11	CONNECTOR, BOARD TO BOARD 8P			
**********					
*	A-4390-077-A	SURROUND BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-126-163-11	ELECT	4.7uF	20%	50V
C302	1-164-073-11	CERAMIC	100PF	10%	50V
C311	1-126-163-11	ELECT	4.7uF	20%	50V
C312	1-126-163-11	ELECT	4.7uF	20%	50V
C313	1-126-163-11	ELECT	4.7uF	20%	50V
C316	1-164-159-11	CERAMIC	0.1uF		50V
C351	1-126-163-11	ELECT	4.7uF	20%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C352	1-164-073-11	CERAMIC	100PF	10%	50V
C361	1-126-163-11	ELECT	4.7uF	20%	50V
C362	1-126-163-11	ELECT	4.7uF	20%	50V
C363	1-126-163-11	ELECT	4.7uF	20%	50V
C366	1-164-159-11	CERAMIC	0.1uF		50V
C397	1-164-073-11	CERAMIC	100PF	10%	50V
C398	1-164-085-11	CERAMIC	0.001uF	10%	50V
C400	1-162-282-31	CERAMIC	100PF	10%	50V
C403	1-136-157-00	FILM	0.022uF	5%	50V
C404	1-136-161-00	FILM	0.047uF	5%	50V
C405	1-104-666-11	ELECT	220uF	20%	10V
C406	1-124-907-11	ELECT	10uF	20%	50V
C407	1-124-907-11	ELECT	10uF	20%	50V
C408	1-124-907-11	ELECT	10uF	20%	50V
C409	1-124-907-11	ELECT	10uF	20%	50V
C410	1-104-666-11	ELECT	220uF	20%	10V
C411	1-126-963-11	ELECT	4.7uF	20%	50V
C412	1-126-963-11	ELECT	4.7uF	20%	50V
C413	1-136-165-00	FILM	0.1uF	5%	50V
C414	1-136-165-00	FILM	0.1uF	5%	50V
C415	1-124-902-00	ELECT	0.47uF	20%	50V
C416	1-126-963-11	ELECT	4.7uF	20%	50V
C417	1-124-902-00	ELECT	0.47uF	20%	50V
C418	1-126-963-11	ELECT	4.7uF	20%	50V
C419	1-124-250-11	ELECT	0.15uF	20%	50V
C420	1-126-962-11	ELECT	3.3uF	20%	50V
C421	1-124-250-11	ELECT	0.15uF	20%	50V
C422	1-162-282-31	CERAMIC	100PF	10%	50V
C423	1-104-664-11	ELECT	47uF	20%	16V
C424	1-136-165-00	FILM	0.1uF	5%	50V
C425	1-136-165-00	FILM	0.1uF	5%	50V
C426	1-124-902-00	ELECT	0.47uF	20%	50V
C427	1-126-963-11	ELECT	4.7uF	20%	50V
C428	1-126-963-11	ELECT	4.7uF	20%	50V
C429	1-124-250-11	ELECT	0.15uF	20%	50V
C430	1-124-902-00	ELECT	0.47uF	20%	50V
C431	1-126-962-11	ELECT	3.3uF	20%	50V
C432	1-124-250-11	ELECT	0.15uF	20%	50V
C433	1-104-666-11	ELECT	220uF	20%	10V
C434	1-104-664-11	ELECT	47uF	20%	16V
C435	1-164-159-11	CERAMIC	0.1uF		50V
C436	1-126-961-11	ELECT	2.2uF	20%	50V
C437	1-104-666-11	ELECT	220uF	20%	10V
C438	1-136-165-00	FILM	0.1uF	5%	50V
C439	1-124-907-11	ELECT	10uF	20%	50V
C440	1-130-469-00	MYLAR	680PF	5%	50V
C443	1-164-085-11	CERAMIC	0.001uF	10%	50V
C444	1-126-963-11	ELECT	4.7uF	20%	50V
C446	1-164-159-11	CERAMIC	0.1uF		50V
C447	1-136-173-00	FILM	0.47uF	5%	50V
C448	1-126-963-11	ELECT	4.7uF	20%	50V
C449	1-162-215-31	CERAMIC	47PF	5%	50V

Ref. No.	Part No.	Description			Remark
C450	1-162-215-31	CERAMIC	47PF	5%	50V
C451	1-164-159-11	CERAMIC	0.1uF		50V
C452	1-104-666-11	ELECT	220uF	20%	10V
C453	1-136-159-00	FILM	0.033uF	5%	50V
C454	1-130-473-00	MYLAR	0.0015uF	5%	50V
C455	1-136-159-00	FILM	0.033uF	5%	50V
C456	1-124-903-11	ELECT	1uF	20%	50V
C457	1-104-666-11	ELECT	220uF	20%	10V
C461	1-164-159-11	CERAMIC	0.1uF		50V
C462	1-164-159-11	CERAMIC	0.1uF		50V
C464	1-164-159-11	CERAMIC	0.1uF		50V
C470	1-136-153-00	FILM	0.01uF	5%	50V
C471	1-126-963-11	ELECT	4.7uF	20%	50V
C473	1-126-963-11	ELECT	4.7uF	20%	50V
C474	1-164-159-11	CERAMIC	0.1uF		50V
C480	1-136-153-00	FILM	0.01uF	5%	50V
C481	1-126-963-11	ELECT	4.7uF	20%	50V
C484	1-164-159-11	CERAMIC	0.1uF		50V
C491	1-126-963-11	ELECT	4.7uF	20%	50V
C494	1-126-963-11	ELECT	4.7uF	20%	50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-164-073-11	CERAMIC	100PF	10%	50V
C503	1-102-989-00	CERAMIC	68PF	5%	500V
C504	1-102-989-00	CERAMIC	68PF	5%	500V
C505	1-124-443-00	ELECT	100uF	20%	10V
C506	1-136-159-00	FILM	0.033uF	5%	50V
C507	1-136-171-00	FILM	0.33uF	5%	50V
C508	1-124-910-11	ELECT	47uF	20%	50V
C509	1-136-163-00	FILM	0.068uF	5%	50V
C510	1-136-153-00	FILM	0.01uF	5%	50V
C511	1-136-154-00	FILM	0.012uF	5%	50V
C512	1-136-157-00	FILM	0.022uF	5%	50V
C513	1-164-046-11	CERAMIC	10PF	0.5PF	50V
C514	1-164-046-11	CERAMIC	10PF	0.5PF	50V
C521	1-126-963-11	ELECT	4.7uF	20%	50V
C522	1-164-073-11	CERAMIC	100PF	10%	50V
C523	1-104-664-11	ELECT	47uF	20%	16V
C524	1-102-989-00	CERAMIC	68PF	5%	500V
C525	1-102-989-00	CERAMIC	68PF	5%	500V
C526	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C551	1-126-963-11	ELECT	4.7uF	20%	50V
C552	1-164-073-11	CERAMIC	100PF	10%	50V
C553	1-102-989-00	CERAMIC	68PF	5%	500V
C554	1-102-989-00	CERAMIC	68PF	5%	500V
C555	1-124-443-00	ELECT	100uF	20%	10V
C556	1-136-159-00	FILM	0.033uF	5%	50V
C557	1-136-171-00	FILM	0.33uF	5%	50V
C558	1-124-910-11	ELECT	47uF	20%	50V
C559	1-136-163-00	FILM	0.068uF	5%	50V
C560	1-136-153-00	FILM	0.01uF	5%	50V
C561	1-136-154-00	FILM	0.012uF	5%	50V

SURROUND

Ref. No.	Part No.	Description			Remark
C562	1-136-157-00	FILM	0.022uF	5%	50V
C563	1-164-046-11	CERAMIC	10PF	0.5PF	50V
C564	1-164-046-11	CERAMIC	10PF	0.5PF	50V
C593	1-124-929-11	ELECT	22uF	20%	100V
C594	1-124-929-11	ELECT	22uF	20%	100V
C595	1-164-159-11	CERAMIC	0.1uF		50V
C596	1-104-664-11	ELECT	47uF	20%	16V
C597	1-104-664-11	ELECT	47uF	20%	16V
C598	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNJ299	1-770-864-11	CONNECTOR, BOARD TO BOARD 7P			
CNJ501	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNJ502	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP304	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNS402	1-568-834-11	SOCKET, CONNECTOR 15P			
CNS404	1-568-440-11	SOCKET, CONNECTOR 17P			
* CNS405	1-568-824-11	SOCKET, CONNECTOR 5P			
		< DIODE >			
D401	8-719-936-61	LED GL-9HY35			
D402	8-719-987-63	DIODE 1N4148M			
D403	8-719-024-99	DIODE 11ES2-NTA2B			
		< IC >			
IC302	8-759-634-50	IC M5218AL			
IC303	8-759-634-50	IC M5218AL			
IC305	8-759-805-14	IC LC7822			
IC401	8-759-248-74	IC LA2785			
IC402	8-759-341-23	IC LV1011			
IC403	8-759-634-51	IC M5218AP			
IC404	8-759-801-01	IC LC4966			
IC407	8-759-805-15	IC LC7823			
IC501	8-749-010-79	IC STK350-030			
IC502	8-759-072-32	IC TC9184P			
IC503	8-749-011-16	IC STK350-230			
		< JACK >			
J301	1-695-188-31	JACK, PIN 4P (PHONO IN,CD IN,TUNER)			
J302	1-580-825-11	JACK, PIN 6P (TAPE/MD,REC OUT,IN)			
		< COIL >			
L401	1-410-509-11	INDUCTOR	10uH		
L402	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q403	8-729-140-96	TRANSISTOR 2SD774-34			

Ref. No.	Part No.	Description			Remark
Q409	8-729-900-63	TRANSISTOR DTA124ES			
Q410	8-729-900-63	TRANSISTOR DTA124ES			
Q411	8-729-900-63	TRANSISTOR DTA124ES			
Q461	8-729-900-36	TRANSISTOR DTC124ES			
Q462	8-729-900-63	TRANSISTOR DTA124ES			
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q502	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q552	8-729-202-67	TRANSISTOR 2SK246-GR3			
		< RESISTOR >			
R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R310	1-249-421-11	CARBON	2.2K	5%	1/4W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R316	1-249-437-11	CARBON	47K	5%	1/4W
R317	1-249-437-11	CARBON	47K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-425-11	CARBON	4.7K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R351	1-249-409-11	CARBON	220	5%	1/4W
R352	1-249-441-11	CARBON	100K	5%	1/4W
R360	1-249-421-11	CARBON	2.2K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R363	1-249-417-11	CARBON	1K	5%	1/4W
R364	1-249-417-11	CARBON	1K	5%	1/4W
R365	1-249-441-11	CARBON	100K	5%	1/4W
R366	1-249-437-11	CARBON	47K	5%	1/4W
R367	1-249-437-11	CARBON	47K	5%	1/4W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-249-417-11	CARBON	1K	5%	1/4W
R370	1-249-425-11	CARBON	4.7K	5%	1/4W
R371	1-249-429-11	CARBON	10K	5%	1/4W
R397	1-249-417-11	CARBON	1K	5%	1/4W
R398	1-249-425-11	CARBON	4.7K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W
R407	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-431-11	CARBON	15K	5%	1/4W
R409	1-249-407-11	CARBON	150	5%	1/4W
R410	1-249-436-11	CARBON	39K	5%	1/4W
R411	1-249-439-11	CARBON	68K	5%	1/4W
R412	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-249-425-11	CARBON	4.7K	5%	1/4W
R432	1-249-441-11	CARBON	100K	5%	1/4W
R433	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-441-11	CARBON	100K	5%	1/4W
R435	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R436	1-249-437-11	CARBON	47K	5%	1/4W
R448	1-249-417-11	CARBON	1K	5%	1/4W
R461	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-249-429-11	CARBON	10K	5%	1/4W
R472	1-249-431-11	CARBON	15K	5%	1/4W
R473	1-249-429-11	CARBON	10K	5%	1/4W
R474	1-249-417-11	CARBON	1K	5%	1/4W
R475	1-249-425-11	CARBON	4.7K	5%	1/4W
R476	1-249-441-11	CARBON	100K	5%	1/4W
R481	1-249-429-11	CARBON	10K	5%	1/4W
R482	1-247-883-00	CARBON	150K	5%	1/4W
R483	1-249-429-11	CARBON	10K	5%	1/4W
R484	1-249-417-11	CARBON	1K	5%	1/4W
R485	1-249-425-11	CARBON	4.7K	5%	1/4W
R486	1-249-441-11	CARBON	100K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-413-11	CARBON	470	5%	1/4W
R504	1-249-440-11	CARBON	82K	5%	1/4W
R505	1-249-433-11	CARBON	22K	5%	1/4W
R506	1-249-413-11	CARBON	470	5%	1/4W
R507	1-249-427-11	CARBON	6.8K	5%	1/4W
R508	1-247-883-00	CARBON	150K	5%	1/4W
R509	1-247-843-11	CARBON	3.3K	5%	1/4W
R510	1-247-903-00	CARBON	1M	5%	1/4W
R511	1-249-441-11	CARBON	100K	5%	1/4W
R512	1-249-426-11	CARBON	5.6K	5%	1/4W
R513	1-249-441-11	CARBON	100K	5%	1/4W
R514	1-249-441-11	CARBON	100K	5%	1/4W
R515	1-249-434-11	CARBON	27K	5%	1/4W
R516	1-249-426-11	CARBON	5.6K	5%	1/4W
R517	1-249-418-11	CARBON	1.2K	5%	1/4W
R518	1-249-415-11	CARBON	680	5%	1/4W
R519	1-249-431-11	CARBON	15K	5%	1/4W
R521	1-249-417-11	CARBON	1K	5%	1/4W
R523	1-249-438-11	CARBON	56K	5%	1/4W
R524	1-249-413-11	CARBON	470	5%	1/4W
R525	1-249-412-11	CARBON	390	5%	1/4W
R526	1-249-438-11	CARBON	56K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W
R552	1-249-441-11	CARBON	100K	5%	1/4W
R553	1-249-413-11	CARBON	470	5%	1/4W
R554	1-249-440-11	CARBON	82K	5%	1/4W
R555	1-249-433-11	CARBON	22K	5%	1/4W
R556	1-249-413-11	CARBON	470	5%	1/4W
R557	1-249-427-11	CARBON	6.8K	5%	1/4W
R558	1-247-883-00	CARBON	150K	5%	1/4W
R559	1-247-843-11	CARBON	3.3K	5%	1/4W
R560	1-247-903-00	CARBON	1M	5%	1/4W
R561	1-249-441-11	CARBON	100K	5%	1/4W
R562	1-249-426-11	CARBON	5.6K	5%	1/4W
R563	1-249-441-11	CARBON	100K	5%	1/4W
R564	1-249-441-11	CARBON	100K	5%	1/4W
R565	1-249-434-11	CARBON	27K	5%	1/4W
R566	1-249-426-11	CARBON	5.6K	5%	1/4W
R567	1-249-418-11	CARBON	1.2K	5%	1/4W
R568	1-249-415-11	CARBON	680	5%	1/4W
R569	1-249-431-11	CARBON	15K	5%	1/4W
R592	1-249-397-11	CARBON	22	5%	1/4W
R593	1-249-397-11	CARBON	22	5%	1/4W
R594	1-247-903-00	CARBON	1M	5%	1/4W
R595	1-249-425-11	CARBON	4.7K	5%	1/4W
R596	1-249-419-11	CARBON	1.5K	5%	1/4W
R597	1-249-419-11	CARBON	1.5K	5%	1/4W
R598	1-249-425-11	CARBON	4.7K	5%	1/4W
R599	1-249-417-11	CARBON	1K	5%	1/4W
		< VIBRATOR >			
X401	1-579-952-21	VIBRATOR, CERAMIC (8.00MHZ)			
**********					
*	A-4390-069-A	VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C208	1-126-163-11	ELECT	4.7uF	20%	50V
C231	1-124-903-11	ELECT	1uF	20%	50V
C233	1-124-903-11	ELECT	1uF	20%	50V
C234	1-124-903-11	ELECT	1uF	20%	50V
C235	1-124-907-11	ELECT	10uF	20%	50V
C236	1-124-907-11	ELECT	10uF	20%	50V
C237	1-124-907-11	ELECT	10uF	20%	50V
C239	1-104-665-11	ELECT	100uF	20%	16V
C241	1-104-665-11	ELECT	100uF	20%	16V
C242	1-164-159-11	CERAMIC	0.1uF		50V
C243	1-164-159-11	CERAMIC	0.1uF		50V
C244	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNJ201	1-750-179-11	SOCKET, CONNECTOR 5P			
CNS301	1-568-826-11	SOCKET, CONNECTOR 7P			
		< IC >			
IC201	8-759-061-95	IC SN761200			
		< JACK >			
J201	1-695-317-21	JACK, PIN 2P (MONITOR(VIDEO OUT),TV/LD (VIDEO IN))			
J202	1-695-317-21	JACK, PIN 2P (VIDEO 2(VIDEO OUT,VIDEO IN))			
J203	1-695-317-21	JACK, PIN 2P (VIDEO 1(VIDEO OUT,VIDEO IN))			
		< COIL >			
L202	1-410-521-11	INDUCTOR	100uH		

VIDEO | VIDEO 3 | VOLUME | Y/C VIDEO

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q231	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q232	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q233	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q234	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q235	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q236	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R201	1-249-403-11	CARBON	68	5%	1/4W
R203	1-249-403-11	CARBON	68	5%	1/4W
R204	1-249-403-11	CARBON	68	5%	1/4W
R235	1-249-403-11	CARBON	68	5%	1/4W
R236	1-249-403-11	CARBON	68	5%	1/4W
R237	1-249-430-11	CARBON	12K	5%	1/4W
R238	1-249-419-11	CARBON	1.5K	5%	1/4W
R239	1-249-426-11	CARBON	5.6K	5%	1/4W
R240	1-249-403-11	CARBON	68	5%	1/4W
R241	1-249-403-11	CARBON	68	5%	1/4W
R242	1-249-430-11	CARBON	12K	5%	1/4W
R243	1-249-419-11	CARBON	1.5K	5%	1/4W
R244	1-249-426-11	CARBON	5.6K	5%	1/4W
R245	1-249-403-11	CARBON	68	5%	1/4W
R246	1-249-403-11	CARBON	68	5%	1/4W
R247	1-249-426-11	CARBON	5.6K	5%	1/4W
R248	1-249-419-11	CARBON	1.5K	5%	1/4W
R249	1-249-430-11	CARBON	12K	5%	1/4W
R250	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	1-660-844-11	VIDEO 3 BOARD			
		**********			
		< CAPACITOR >			
C291	1-164-159-11	CERAMIC	0.1uF		50V
C292	1-124-907-11	ELECT	1uF	20%	50V
C293	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP299	1-770-865-11	CONNECTOR, BOARD TO BOARD 7P			
		< JACK >			
J299	1-764-190-21	JACK, PIN 3P (VIDEO 3 INPUT)			
		< RESISTOR >			
R291	1-249-403-11	CARBON	68	5%	1/4W
R292	1-249-403-11	CARBON	68	5%	1/4W
R293	1-249-403-11	CARBON	68	5%	1/4W
**********					

Ref. No.	Part No.	Description			Remark
*	1-660-842-11	VOLUME BOARD			
		**********			
		< CAPACITOR >			
C442	1-126-963-11	ELECT	4.7uF	20%	50V
C443	1-164-159-11	CERAMIC	0.1uF		50V
C445	1-164-159-11	CERAMIC	0.1uF		50V
C492	1-126-963-11	ELECT	4.7uF	20%	50V
C495	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNJ407	1-568-440-11	SOCKET, CONNECTOR 17P			
* CNP103	1-770-392-11	PIN, CONNECTOR (PC BOARD) 8P			
* CNP107	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P			
		< IC >			
IC403	8-759-634-51	IC M5218AP			
		< TRANSISTOR >			
Q404	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q406	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q407	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R411	1-249-441-11	CARBON	100K	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-433-11	CARBON	22K	5%	1/4W
R416	1-249-413-11	CARBON	470	5%	1/4W
R417	1-249-425-11	CARBON	4.7K	5%	1/4W
R418	1-249-413-11	CARBON	470	5%	1/4W
R419	1-249-425-11	CARBON	4.7K	5%	1/4W
R461	1-249-441-11	CARBON	100K	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R464	1-249-429-11	CARBON	10K	5%	1/4W
R465	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-249-413-11	CARBON	470	5%	1/4W
R468	1-249-413-11	CARBON	470	5%	1/4W
R469	1-249-425-11	CARBON	4.7K	5%	1/4W
		< VARIABLE RESISTOR >			
RV401	1-225-281-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)			
**********					
*	1-660-855-11	Y/C VIDEO BOARD			
		**********			
		< CAPACITOR >			
C205	1-136-165-00	FILM	0.1uF	5%	50V
C207	1-164-095-11	CERAMIC	0.01uF	10%	16V
C209	1-164-095-11	CERAMIC	0.01uF	10%	16V
C215	1-136-165-00	FILM	0.1uF	5%	50V
C216	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C217	1-104-664-11	ELECT	47uF	20%	16V
C225	1-164-095-11	CERAMIC	0.01uF	10%	16V
C226	1-124-907-11	ELECT	10uF	20%	50V
C227	1-124-907-11	ELECT	10uF	20%	50V
C229	1-124-903-11	ELECT	1uF	20%	50V
C245	1-136-165-00	FILM	0.1uF	5%	50V
C278	1-124-903-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
* CNF301	1-568-826-11	SOCKET, CONNECTOR 7P			
* CNF405	1-568-824-11	SOCKET, CONNECTOR 5P			
		< IC >			
IC203	8-759-061-95	IC SN761200			
IC204	8-759-061-95	IC SN761200			
		< JACK >			
J204	1-537-943-11	TERMINAL, S (MONITOR OUT)			
J207	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 1(S VIDEO OUT,IN))			
		< COIL >			
L201	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q204	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q206	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q207	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q208	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q210	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R202	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-247-807-31	CARBON	100	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-403-11	CARBON	68	5%	1/4W
R209	1-249-403-11	CARBON	68	5%	1/4W
R210	1-249-403-11	CARBON	68	5%	1/4W
R211	1-247-807-31	CARBON	100	5%	1/4W
R213	1-249-419-11	CARBON	1.5K	5%	1/4W
R214	1-249-419-11	CARBON	1.5K	5%	1/4W
R215	1-249-403-11	CARBON	68	5%	1/4W
R217	1-249-403-11	CARBON	68	5%	1/4W
R218	1-249-403-11	CARBON	68	5%	1/4W
R220	1-247-807-31	CARBON	100	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R228	1-249-411-11	CARBON	330	5%	1/4W
R230	1-249-411-11	CARBON	330	5%	1/4W
R233	1-249-426-11	CARBON	5.6K	5%	1/4W
R234	1-249-426-11	CARBON	5.6K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R251	1-249-403-11	CARBON	68	5%	1/4W
R257	1-249-403-11	CARBON	68	5%	1/4W

****

MISCELLANEOUS
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15	1-773-154-11	WIRE (FLAT TYPE) (21 CORE)
16	1-773-025-11	WIRE (FLAT TYPE) (15 CORE)
54	1-533-217-31	HOLDER,FUSE
64	1-769-876-11	WIRE (FLAT TYPE) (7 CORE)
65	1-769-861-11	WIRE (FLAT TYPE) (5 CORE)
⚠CNJ906	1-526-794-11	OUTLET, AC (AC OUTLET)
⚠CNP901	1-769-744-11	CORD, POWER
⚠F801	1-532-506-51	FUSE,.TIME LAG (T6.3AL/250V)
⚠F802	1-532-506-51	FUSE ,TIME LAG (T6.3AL/250V)
⚠F803	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)
⚠F804	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)
⚠F901	1-532-465-51	FUSE, TIME LAG (T3.15AL/250V)
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5AL/250V)
⚠T901	1-429-610-11	TRANSFORMER, POWER

****

ACCESSORIES & PACKING MATERIALS
****

	1-473-629-11	REMOTE COMMANDER (RM-P362)
	3-856-168-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
	3-856-168-21	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP,UK,G,IT)
	3-856-168-41	MANUAL, INSTRUCTION (CHINESE) (SP,MY,CH)
*	4-982-139-02	CUSHION (G,EA)
*	4-982-352-01	INDIVIDUAL CARTON
	4-983-536-01	COVER, BATTERY (FOR RM-P362)

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****
HARDWARE LIST
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#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
#2	7-682-548-04	SCREW +BVTT 3X8 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-960-739-11
(SP, MY)

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Home A&V Products Company

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